


POSTGRADUATE  
CALENDAR



THE UNIVERSITY  
OF ADELAIDE  
AUSTRALIA

# 2009 THE UNIVERSITY OF ADELAIDE





2009

# Postgraduate Calendar



## 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.

## Contacting the University

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## The Arms of the University

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

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

### Sub Cruce Lumen

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

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\*\* These programs are now run by the Faculty of Engineering, Computer & Mathematical Sciences.

<sup>+</sup> There will be no further intake into these programs.

<sup>#</sup> There will be no intake into these programs in 2009.

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# Academic Program Rules

# Adelaide Graduate Centre

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# Doctor of Philosophy

## 1 Rules

- 1.1 The Vice-Chancellor, with authority devolved to her/him by Council, and after receipt of advice from the Research Education and Development Committee, shall from time to time prescribe Rules defining the academic standing required for candidature, eligibility for enrolment, the program of study and research for the degree, the condition of candidature and the assessment for the degree.
- 1.2 Such Rules shall become effective from the date of prescription by the Vice-Chancellor or such other date as the Vice-Chancellor may determine.

## 2 Guidelines

The Research Education and Development Committee may from time to time approve guidelines on any matters included in these Rules and may authorise the Dean of Graduate Studies or the Manager, Graduate Administration and Scholarships, to act in accordance with such guidelines without reference to the Committee in each case.

## 3 Academic standing

- 3.1 The academic standing required for acceptance as a candidate for a Doctor of Philosophy in the University shall be a relevant Honours degree of Bachelor of at least a IIA standard or a degree of Master of the University of Adelaide or the equivalent thereof. An Honours or Masters degree presented as a qualification for admission to a PhD program must contain a research component deemed appropriate by the Research Education and Development Committee. An Honours or Masters degree that contains only coursework will not be accepted for this purpose.
- 3.2 A person who holds a relevant Honours or Masters degree of another university or equivalent thereof, may be accepted as a candidate provided that the program of study undertaken and the academic standard reached are equivalent to those required of a candidate who is a graduate of the University of Adelaide.
- 3.3 The Committee may accept as a candidate a graduate who does not qualify under Rules 3.1 or 3.2 but has demonstrated an outstanding level of academic achievement and
  - a has completed to the satisfaction of the Committee at least one year of full-time postgraduate study or research and passed a qualifying examination of Honours standard prescribed by the appropriate Faculty and approved by the Committee

*or*

- b obtained a qualification that includes a significant research component *or*
- c is experienced in research as evidenced by significant research publications or written reports on research work done by the applicant.

- 3.4 Applicants for a Doctor of Philosophy must satisfy the minimum English language proficiency requirement as set by the University.

## 4 Credit for work previously completed

- 4.1 At the time of application, the Committee may grant credit in the program for the degree of Doctor of Philosophy for research undertaken in another program in the University or in another university or tertiary institution.
- 4.2 In consideration for acceptance under Rule 4.1, the Committee must be satisfied that
  - a the person is of such academic standing as would be required of other candidates for the degree *and*
  - b the person's progress so far has been satisfactory and the research for which credit is granted is of a satisfactory standard.

## 5 Enrolment

- 5.1 A person shall not be enrolled as a candidate for the degree unless:
  - a the applicant's proposed field of study and research is acceptable to the University and the School/ Discipline responsible for the supervision of the candidate's work
  - b in the case of a person granted credit under Rule 4.1, at least one year of full-time study and research, or its equivalent, will still be necessary to complete the work for the degree.
- 5.2 Except with the permission of the Dean of Graduate Studies, a candidate may not enrol concurrently in another academic program.
- 5.3 Except with the permission of the Dean of Graduate Studies, a candidate who is permitted to enrol concurrently in another academic program and who is granted leave must intermit all academic programs in which he/she is enrolled.

## 6 Duration of candidature and mode of study

A candidate may proceed to the degree by full-time study or, if the Head of the School/Discipline concerned is satisfied that the candidate has adequate time to pursue supervised research under the control of the University, by half-time



study. Except in circumstances approved by the Committee, the work for the degree shall be completed and the thesis submitted:

- a in the case of a full-time candidate, not less than two years and not more than four years from the date of commencement of candidature
- b in the case of a half-time candidate, not less than four years and not more than eight years from the date of commencement of candidature
- c in the case of a candidate granted credit under Rule 4.1 the candidature shall normally expire
  - i in the case of a full-time candidate, not less than one year and not more than four years from the date the candidate commenced work in the other program *or*
  - ii in the case of a half-time candidate, not less than two years and not more than eight years from the date the candidate commenced work in the other program.

## 7 Work for the degree

- 7.1 A candidate shall pursue an approved program of study and research under the control of the University and under the general guidance of supervisors appointed by the University leading to the generation of a thesis. At least one supervisor shall be a member of the academic staff of the School/Discipline of the University in which the candidate is enrolled.
- 7.2 The thesis shall:
- a display original and critical thought
  - b be a significant contribution to knowledge
  - c relate the topic of research to the broader framework of the discipline within which it falls *and*
  - d be clearly, accurately and cogently written and be suitably illustrated and documented.
- 7.3
- a The University recognises that a thesis may take a variety of formats that are influenced by the discipline or field of study. Students should consult both their supervisor(s) and the University's Specifications for Thesis to determine the most appropriate format.
  - b Work presented in the thesis must have been produced during the period of candidature.
  - c Published works included in a thesis under these Rules must have been published or accepted by publishers approved by the Discipline and in accordance with DEEWR criteria for the Higher Education Research Data Collection.
  - d Where appropriate, texts may be submitted in manuscript form and suitably identified as such.
- 7.4 Irrespective of the nature of the thesis, its content, in part or in total, must not have been

accepted for any other degree in the name of the candidate at the University of Adelaide or other academic institution. Candidates should consult the appropriate recommended declarations and the University's Specifications for Thesis.

- i A thesis that incorporates publications shall also contain: a contextual statement that normally includes the aims underpinning the publication(s); a literature review or commentary that establishes the field of knowledge and provides a link between publications; and a conclusion showing the overall significance of the work and contribution to knowledge.
- ii Where a portfolio of publications is submitted as a PhD thesis or is combined with conventional written narrative, the publications must be closely related in terms of subject matter and form a cohesive research narrative.
- iii The length of a major publication and the number and length of scholarly works included in a portfolio of publications shall be determined by Faculties in consultation with specific Discipline areas. Where the publication(s) are deemed to constitute a body of work worthy of the award, the candidate may include additional material submitted for publication.

7.5 Where a thesis contains work attributed to joint or multiple authors, for example co-authored publications, candidates must include a clear statement of their contribution and that of the co-authors (in terms of the conceptualisation of the work, its realization and its documentation).

7.6 Jointly- or multi-authored works must have the signed approval of the co-author(s) attesting to the candidate's claimed contribution and authorizing the inclusion of the publication(s) in the thesis.

7.7 A thesis should not normally exceed 80,000 words.

- 7.8
- i Creative work may be in the form of exhibition, music composition or performance, literary work, film or other format approved by the Research Education and Development Committee.
  - ii The creative work should provide a coherent demonstration that the candidate has reached an appropriate standard in the research and has made a significant and original contribution to knowledge in the area. The creative work should be the research outcome, while the exegesis that accompanies it should describe the research process and elaborate, elucidate and place in context the artistic practice undertaken.

## 8 Required program of activities at the commencement of candidature

8.1 Each candidate (including those on remote candidature) will be enrolled on a provisional basis for the first twelve months of the degree.

- 8.2 A major review of progress after twelve months will recommend confirmation of Doctor of Philosophy candidature, change to a Masters, or a further period of conditional candidature not exceeding six months, or termination.
- 8.3 Candidates granted a further period of conditional enrolment will undergo a second major review at the end of this time period. No further periods of conditional enrolment will be permitted.
- 8.4 Continuation of enrolment at the end of this period will depend on overall academic progress and the completion of set activities to the satisfaction of the School/Discipline concerned. These activities will form part of a Structured Program of activities extending through the candidature.
- 8.5 Such activities will be determined by the School/Discipline through which the candidate is enrolled and in the first year must include the completion and presentation of the research proposal and other programs and skills training deemed necessary by the School/Discipline. In the case of international students, completion of the Integrated Bridging Program is also required, except in those cases where an exemption has been granted.
- 8.6 The research proposal must be agreed and submitted to the Adelaide Graduate Centre preferably within three, but no later than six months (or half-time equivalent) from the commencement of candidature.
- 8.7 A candidate who has completed the first year of a Masters program by research and who is qualified and permitted by the Committee to transfer to the degree of Doctor of Philosophy will be deemed to have completed the Core Component of the Structured Program of activities.

## 9 Remote candidature

- 9.1 Initial enrolment as a remote candidate may be permitted on academic grounds where the School/Discipline concerned can ensure the provision of external supervision, facilities and affiliation to the satisfaction of the Research Education and Development Committee.
- 9.2 Unless otherwise exempted, a remote candidate will be required to complete a period(s) of residence in the University of Adelaide as determined by the Research Education and Development Committee in consultation with the School/Discipline concerned.
- 9.3 Notwithstanding Rule 10.2, a remote candidate will normally be required to undertake their candidature in an internal attendance mode until such time as the Core Component of the Structured Program has been completed.
- 9.4 In accordance with Rule 6, a remote candidate may proceed to the degree either by full-time or half-time study.

- 9.5 On the recommendation of the School/Discipline, the Committee at any time may permit an enrolled student to enrol as a remote candidate subject to the conditions specified in 9.1, 9.2, 9.3 and 9.4 above.
- 9.6 A remote candidate may be permitted to convert to an internal mode of attendance at any time and shall be subject to the conditions normally applied.
- 9.7 Notwithstanding Rules 9.1 to 9.6 above, remote candidates are also required to abide by the other Rules and guidelines for the Degree of Doctor of Philosophy.

## 10 Joint candidature

- 10.1 Enrolment as a joint candidate may be permitted where a program of cooperation has been formally agreed between the University of Adelaide and another institution for jointly awarded degrees.
- 10.2 When it is proposed that the candidate spend the majority of candidature away from Adelaide, the Research Education and Development Committee must approve conditions as in 9.1.
- 10.3 Upon successful completion of the work for the degree, the badges of both institutions may appear on the parchment awarded.

## 11 Review of academic progress

- 11.1 The Committee may review the progress of a candidate at any time during the program of candidature and, if the candidate's progress is unsatisfactory, may terminate the candidature.
- 11.2 A formal review of Progress and confirmation of candidature will occur twelve months after enrolment (see 8.2 above). Additional reviews will occur around October each year with written reports forwarded to the Dean of Graduate Studies. A candidate's re-enrolment in the following year is conditional upon satisfactory progress in the year of the review.

## 12 Absence from the University

Except for remote candidates, the Committee, on the recommendation of the School/Discipline concerned, may permit a candidate to pursue away from the University work connected with the research for the degree. Such permission may only be granted under special circumstances during provisional candidature.

### Leave of absence

- 13 A candidate whose work is interrupted for a period of time may be granted cumulative leave by the Committee of up to twelve months. If an application for leave is approved, the minimum and maximum periods specified in Rule 7 will be adjusted accordingly by adding the length of the approved leave.
- 14 In exceptional circumstances, the Committee may grant a candidate cumulative leave in excess

of 12 months. Where a student is granted this exceptional leave, the University will endeavour to ensure, but cannot guarantee, that appropriate supervision and resources will be available to support the student on return from leave.

15 In some fields of study, time plays a critical role in the currency of the research. In such cases, the research project may no longer be current following leave and the University may not be able to secure supervision in an area where currency is compromised. Additionally, the University may not be able to accommodate an amendment to the research project. Under these circumstances, continuation of candidature may not be possible and the only options will be:

- i withdrawal by the candidate *or*
- ii termination of candidature by the University.

16 The candidature of a student who takes leave from the University without approval will be suspended immediately, on notification of the Adelaide Graduate Centre.

17 A candidate granted leave must inform the Adelaide Graduate Centre in writing of resumption of candidature within two weeks of the approved date of return.

18 A candidate seeking to extend a period of leave must apply in writing for an extension of leave at least one week prior to the originally approved date of return.

## 19 Withdrawal from candidature

A student may withdraw from candidature at any time. Candidature may be reinstated at a future date without academic consequences, subject to the continuing currency of the research undertaken prior to withdrawal and the currency of the research skills of the candidate. The approval of the Head of School and the ongoing availability of appropriate supervision and resources are also required.

## 20 Suspension of candidature

A student's candidature may be suspended for failure to comply with any formal requirement of candidature, including:

- i Failing to abide by the responsibilities of research candidates as detailed in the Research Student Handbook
- ii Failing to undertake a required review of progress by the due date or extended due date
- iii Failing to respond to any University correspondence sent to the nominated mailing address or campus email address within two months of the requested date of response
- iv Failing to accept reasonable offers of supervision facilitated by the University
- v Taking leave without prior approval
- vi Failing to return from leave on the agreed date

- vii Failing to notify the Graduate Centre of return from leave within two weeks of return
- viii Non-payment of University fees and charges.

21 Reinstatement of a suspended candidature will only be permitted with the approval of the Head of School where:

- i the reason for the suspension has been addressed as specified in the Research Student Handbook
- ii the research undertaken prior to suspension remains current *and*
- iii appropriate supervision and resources are available to support the reinstated candidature

## Termination of candidature

22 A student's candidature may be terminated where:

- i progress is unsatisfactory following a review of progress, whether programmed or otherwise; *or*
- ii where candidature has been suspended for more than twelve months *or*
- iii where the candidate has failed to complete the core component of the structured program within six months or half-time equivalent of commencement.

23 A terminated candidature may only be reinstated following a successful appeal.

## 24 Extension of candidature

A candidate may be granted by the Committee one extension of candidature only of twelve months beyond the maximum period specified in Rule 6. If the thesis has not been submitted by the end of the extended period the candidature will lapse.

## 25 Completion of thesis outside the University

A candidate who has completed the equivalent of two years of full-time work under the control of the University, who has completed the experimental work (where appropriate) and whose progress is sufficiently well advanced to permit the satisfactory completion of the thesis outside the University, may be granted permission by the Committee to complete the writing-up of the thesis outside the University. If such permission is granted the candidate will be allowed either twelve months or until the end of candidature, whichever is the lesser, to submit the thesis. If the thesis has not been submitted by the end of the writing-up period the candidature will lapse.

## 26 Lapsed candidature

26.1 The candidature of a candidate who has failed to submit his/her thesis by the end of his/her candidature, unless otherwise withdrawn, suspended, or terminated, shall be deemed to have lapsed.

- 26.2 A candidature, which has lapsed for not more than twelve months, may be resumed if the completed thesis, which has not departed from the field of study that was being pursued before the candidature lapsed, is subsequently submitted to the Manager, Graduate Administration and Scholarships. The thesis will only be accepted for examination if the School/Discipline certifies that it is satisfactory to that School/Discipline.
- 26.3 Approval of the Committee is required for the resumption of a lapsed candidature under any other conditions.

## 27 Intention to submit thesis

A candidate shall notify the Manager, Graduate Administration and Scholarships, in writing, approximately three months before he or she expects to submit the thesis required under Rule 28. A summary of the thesis, together with the proposed thesis title, shall be submitted at the same time.

## 28 Submission and examination of the thesis

- 28.1 On completion of the approved program of study and research a candidate shall submit a thesis embodying the results of that study and research, and may submit also, in support of the thesis, other relevant material.
- 28.2 The format of a thesis which incorporates publications and/or manuscripts shall be in accordance with Rules 7.4 (i) to 7.4 (iii).
- 28.3 The Head of School/Discipline shall certify that the thesis is worthy of examination.
- 28.4 In the case of a doctoral thesis submitted in the areas of musical, artistic or visual practice, presentation may be in one of three forms, a) by a theoretical thesis or b) by one or more creative works and an exegesis or c) a series of music performance recordings and an exegesis.
- 28.5 In the case of a doctoral thesis submitted in the areas of musical, artistic or visual practice, the creative work and the exegesis will not be examined separately but as an integrated whole constituting the original and substantial contribution to knowledge required from doctoral candidates.
- 28.6 In the case of visual arts, the examiners will attend the exhibition at which time they will be given a copy of the exegesis in temporary binding. A final copy of the exegesis will be provided to the examiners within three months of their viewing the creative work.
- 28.7 The thesis and any other material submitted shall be assessed by examiners external to the University.
- 28.8 No thesis, material or publications presented for any other degree within this or any other institution shall be so submitted.

- 28.9 With the exception of suitably referenced work, material, both physical and intellectual, presented for examination should have been generated during the period of candidature
- 28.10 The Committee shall prescribe the form in which the thesis shall be submitted and the number of copies to be submitted.

## 29 Appointment of examiners

- 29.1 Candidates shall have the right, prior to the commencement of the examination process, to identify people they do not wish to examine their theses.
- Any such objections should be submitted to the Manager, Graduate Administration and Scholarships, at the same time as the notification of intention to submit required under Rule Such objections do not serve as a veto.
- 29.2 The Committee shall appoint two examiners who are external to the University, taking account of any objections raised under Rule 29.1 and the recommendations of the Head of the relevant School/Discipline.
- 29.3 The examiners shall be requested to report in such form as the Committee will determine and to recommend one of the alternatives listed in Rule 30.
- 29.4 After consideration of the reports of the examiners, the Committee may appoint a third external examiner and/or an external arbitrator.

## Examination results

- 30 After consideration of the reports of the examiners and such other information as it thinks fit, the Committee shall determine that:
- a the candidate be awarded the degree *or*
  - b the candidate be awarded the degree but that minor amendments be made to the thesis *or*
  - c the candidate be awarded the degree subject to the specified amendments being made to the thesis *or*
  - d the candidate be not awarded the degree but be permitted to re-submit the thesis in a revised form *or*
  - e the candidate be awarded the appropriate degree of Master *or*
  - f the candidate be awarded the appropriate degree of Master upon making suitable amendments to the thesis *or*
  - g the candidate be not awarded the degree of Doctor of Philosophy or the degree of Master.
- 31 In the case of a thesis presented for re-examination as provided for in Rule 31(d), the thesis, as far as possible, will be assessed by the original examiners.
- 32 A thesis presented for re-examination will not be submitted for further re-examination.

## **Thesis amendments following examination**

- 33 The time limits for revision of the thesis are:
- i three months where the examination result is to award the degree following minor amendments to the thesis (see Rule 30b), or where the examination result is to award the degree subject to the specified amendments being made to the thesis (see Rule 30c) *and*
  - ii twelve months where the examination result is not to award the degree but to permit resubmission of the thesis in a revised form (see Rule 30d).
- 34 Candidates who require additional time to complete revisions must apply to the Dean of Graduate Studies for permission, stating the reasons for the request. The request should be endorsed by the principal supervisor and the Head of School/Discipline or the Postgraduate Coordinator.

## **35 Deposit of thesis**

Such number of copies of a thesis and any other material on which the degree is awarded shall be deposited in the Barr Smith Library or elsewhere as determined by the Committee. Unless otherwise determined by the Committee, the copies shall be available for loan and photocopy.

## **36 Loan or photocopy of thesis**

A candidate who does not wish to allow the thesis to be lent or photocopied when it is deposited in the Library under Rule 35 shall make a written application to the Manager, Graduate Administration and Scholarships, at the same time as he or she notifies his or her intention to submit under Rule 27. The withholding of such permission and the period of time involved shall be determined by the Committee.

## **37 Posthumous award**

If a person dies after completing, or in the opinion of the Committee, substantially completing the requirements of the award, the University may confer the award posthumously.

## **38 Revoking the award**

If the Committee is satisfied that, when the Doctorate was conferred on a person, the person

- a did not possess the relevant qualifications *or*
- b had not completed the necessary requirements

the Vice-Chancellor with authority devolved to her/him by Council may revoke the award.

Upon revocation, the person is taken never to have received the award.

## **39 Return of documents**

If requested by the Dean of Graduate Studies, the recipient of a Doctorate must deliver to the University the documents certifying or evidencing the award.

## **40 General**

When, in the opinion of the Research Education and Development Committee, special circumstances exist, the Committee, on the recommendation of the relevant School/Discipline in each case, may vary any of the provisions in Rules 1-39 above



# Higher Doctorate Degrees

The General Academic Program rules shall apply to the following Higher Doctorate programs at the University of Adelaide. The following Higher Doctorate programs have no Specific Academic Program Rules and therefore are bound entirely by the General Higher Doctorate Program Rules:

## Faculty of Health Sciences

- Doctor of Dental Science

## Faculty of Engineering, Computer and Mathematical Sciences

- Doctor of Engineering
- Doctor of Science in the Faculty of Engineering, Computer and Mathematical Sciences

## Faculty of Humanities and Social Sciences

- Doctor of Letters
- Doctor of Music

## Faculty of the Professions

- Doctor of Laws

## Faculty of Sciences

- Doctor of Science in the Faculty of Sciences.

The Higher Doctorate awards are the highest of academic awards offered by the University and are awarded to candidates who are eminent in their respective field.

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## 1 General Higher Doctorate Rules

All candidates must comply with the General Academic Program Rules and are advised to refer to them to gain an understanding of the procedures and requirements of the Higher Doctorate awards.

## 2 Rules

The Research Education and Development Committee may from time to time approve guidelines on any matters included in these rules and may authorise the Dean of Graduate Studies or the Manager, Graduate Administration and Scholarships, to act in accordance with such guidelines without reference to the Committee in each case. Notwithstanding this, Faculties may develop their own specific guidelines as permitted within the framework of these rules.

### Academic standing

- 3 The Faculty shall only accept a candidate for a higher doctorate degree if it is satisfied that the submission represents a contribution of distinguished merit adding to any discipline with which the Faculty is concerned.
- 4 Candidates for a higher doctorate shall normally hold the degree of Doctor of Philosophy from the University of Adelaide.
- 5 Notwithstanding Rule 4 Faculties may accept candidates who:

- a have obtained another degree from the University of Adelaide *or*
- b have qualified for a degree of another university or institution of higher education recognised by the University of Adelaide, and have a substantial demonstrable association with the University.

- 6 No person shall be admitted to a higher doctorate degree before the expiration of at least five years after admission to the degree of Doctor of Philosophy or eight years after admission to a Bachelor or Master degree.

### Application

- 7 A person who desires to become a candidate for the degree shall give notice of the intended candidature in writing to the Dean of Graduate Studies, Adelaide Graduate Centre.  
At the same time and in a separate statement, the applicant shall furnish the following:
  - a a detailed curriculum vitae
  - b academic transcripts and parchments
  - c a statement supporting the applicant's claim for the award of the degree
  - d a statement detailing the applicant's past or current affiliation with the University of Adelaide
  - e a statement declaring that none of the work has formed part or all of an award for another degree *and*

f a list of publications/creative works/recordings to be included in the submission.

Copies of publications, creative works or recordings relevant to the application may be requested by the Faculty.

8 The Dean of Graduate Studies, Adelaide Graduate Centre will forward the application to the relevant Faculty for consideration.

### **Consideration of applications**

9 The Faculty shall appoint a panel consisting of at least three senior academic members of the University who have an understanding of the applicant's field of research. The Executive Dean of the Faculty shall nominate one member of the panel to act as Convenor.

10 The panel shall investigate the information provided, including the quality and nature of the submission for examination and recommend that the Faculty:

- a allow the applicant to proceed, and approve the subject or subjects of the work to be submitted
- b advise the applicant not to submit the work in its current form *or*
- c not allow the applicant to proceed.

In the case of (a) or (b) the assessment panel will determine which documentation or publications/works may be included or excluded from the final submission.

### **11 Notification of assessment of application and intention to submit**

The Adelaide Graduate Centre, on behalf of the Dean of Graduate Studies, will advise the candidate of the Faculty's decision and request the candidate forward written notification of intention to proceed with the submission.

### **12 Appointment of examiners**

On receipt of the candidate's written notification of intention to proceed, the Faculty shall nominate three external examiners, all of whom will be eminent in the field of the submitted work and active in research.

### **Submission**

13 Candidates shall supply three bound copies of the submission which shall contain a declaration of originality, an introduction addressing the nature and significance of the work and a conclusion.

14 Loose collections of previously published works will not be accepted.

### **Examination**

- 15 a The degree will be awarded entirely on consideration of such published works, creative works or recordings as the candidate may submit for examination.
- b To qualify for the degree the candidate shall furnish satisfactory evidence that he/she has made an original contribution of distinguished merit to the discipline.
- 16 Examiners will be requested to report on the submission and recommend whether the candidate:
  - a should be awarded the degree
  - b should not be awarded the degree.

### **Examination result**

- 17 Recommendations of the examiners to award the degree must be unanimous or the degree will not be awarded.
- 18 The reports of all examiners will be forwarded to the Faculty for ratification of the decision to admit or not admit the candidate to the degree and the Dean of Graduate Studies, Adelaide Graduate Centre will notify the candidate of the Faculty's decision.
- 19 A submission may not be presented for re-examination.

### **20 Deposit of submission in the library**

Such number of copies of the submission and any other material on which the degree is awarded shall be deposited in the Barr Smith Library or elsewhere in the University as determined by the Research Education and Development Committee. Unless otherwise determined by the Committee, the copies shall be made available for loan and photocopy.

### **21 Graduation**

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

### **22 General**

When, in the opinion of the Research Education and Development Committee, special circumstances exist, the Committee, on the recommendation of the relevant School/Discipline in each case, may vary any of the provisions in Rule 1-21 above.



# Professional Doctorate Degrees

The General Academic Program Rules shall apply to all Professional Doctorate awards at the University of Adelaide. Specific Academic Program Rules for Professional Doctorates awards have been developed within the framework of these General Professional Doctorate Rules and are listed under their respective Faculty/School.

- 1 All students must comply with both the General and Specific Academic Program Rules and are advised to refer to them to gain an understanding of their rights and responsibilities regarding program matters.

## 2 Rules

The Research Education and Development Committee may from time to time approve guidelines on any matters included in these Rules and may authorise the Dean of Graduate Studies or the Manager, Graduate Administration and Scholarships, to act in accordance with such guidelines without reference to the Committee in each case. Notwithstanding this, Faculties may develop their own specific guidelines as permitted within the framework of these Rules.

## 3 Definitions

- 3.1 A Professional Doctorate shall, in general, have the objectives of improving professional practice by extending the knowledge, expertise and skill of students through the application of research to current problems and issues.
- 3.2 A Professional Doctorate shall comprise a minimum of two-thirds of the assessable content by research.

## 4 Academic standing

- 4.1 The academic standing required for acceptance as a candidate for a Professional Doctorate in the University shall be a relevant Honours degree of Bachelor of at least a IIA standard or a degree of Master of the University of Adelaide or the equivalent thereof. An Honours or Masters degree presented as a qualification for admission to a doctoral program must contain a research component deemed appropriate by the Research Education and Development Committee. An Honours or Masters degree that contains only coursework will not be accepted for this purpose.
- 4.2 A person who holds a relevant Honours or Masters degree of another university or equivalent thereof, may be accepted as a candidate provided that the program of study undertaken and the academic standard reached are equivalent to those required of a candidate who is a graduate of the University of Adelaide.

- 4.3 In addition to the relevant academic qualifications and research training, a period of at least three years' relevant professional experience shall form part of the academic standing required for acceptance as a candidate.

- 4.4 The Committee may accept as a candidate a graduate who does not qualify under Rules 4.1 or 4.2 but satisfies Rule 4.3 and has demonstrated an outstanding level of academic achievement and

- a has completed to the satisfaction of the Committee at least one year of full-time postgraduate study or research and passed a qualifying examination of Honours standard prescribed by the appropriate Faculty and approved by the Committee *or*
- b obtained a qualification that includes a significant research component *or*
- c is experienced in research as evidenced by significant research publications or written reports on research work done by the applicant.

- 4.5 Applicants for a Professional Doctorate must satisfy the minimum English language proficiency requirement as set by the University.

## 5 Credit for work previously completed

- 5.1 At the time of application, the Committee may grant credit towards a Professional Doctorate for research or Doctoral level coursework undertaken in another program in the University or in another university or tertiary institution. The maximum credit granted will be one year full-time equivalent (FTE) of the total program, inclusive of both coursework and research.
- 5.2 No candidate will be granted credit for any coursework or research that has been presented towards another award.
- 5.3 In consideration for acceptance under Rule 5.1, the Committee must be satisfied that
- a the person is of such academic standing as would be required of other candidates for the degree *and*
  - b the person's progress so far has been satisfactory and the research for which credit is granted is of a satisfactory standard.



## 6 Enrolment

- 6.1 A person shall not be enrolled as a candidate for the degree unless:
- the applicant's proposed field of study and research is acceptable to the University and the School/Discipline responsible for the supervision of the candidate's work
  - in the case of a person granted credit under Rule 5.1, at least one year of full-time study and research, or its equivalent, will still be necessary to complete the work for the degree.
- 6.2 Except with the permission of the Dean of Graduate Studies, a candidate may not enrol concurrently in another academic program.
- 6.3 Except with the permission of the Dean of Graduate Studies, a candidate who is permitted to enrol concurrently in another academic program and who is granted leave must intermit all academic programs in which he or she is enrolled.

## 7 Duration of candidature and mode of study

- 7.1 A candidate may proceed to the degree by full-time study or, if the Head of the School/Discipline concerned is satisfied that the candidate has adequate time to pursue supervised research under the control of the University, by half-time study.
- 7.2 The normal program duration of a professional doctorate will comprise a minimum of three years FTE study and a maximum of four years FTE study.
- 7.3 Except in circumstances approved by the Committee, the work for the degree shall be completed and the thesis submitted:
- in the case of a full-time candidate in a professional doctorate with a three-year program duration, not less than two years and not more than three years from the date of commencement of candidature.
  - in the case of a half-time candidate in a professional doctorate with a three-year program duration, not less than four years and not more than six years from the date of commencement of candidature.
  - in the case of a full-time candidate in a professional doctorate with a four-year program duration, not less than two years and not more than four years from the date of commencement of candidature.
  - in the case of a half-time candidate in a professional doctorate with a four-year program duration, not less than four years and not more than eight years from the date of commencement of candidature.
  - in the case of a candidate granted credit under Rule 5.1 the candidature shall normally expire

- in the case of a full-time candidate, not less than one year and not more than three or four years from the date the candidate commenced work in the other program, depending on whether the professional doctorate in which enrolment is sought has a three-year or four-year program duration respectively *or*
- in the case of a half-time candidate, not less than two years and not more than six or eight years from the date the candidate commenced work in the other program, depending on whether the professional doctorate in which enrolment is sought has a three-year or four-year program duration respectively.

## 8 Work for the degree

- 8.1 A candidate shall pursue an approved program of study and research under the control of the University and under the general guidance of supervisors appointed by the University leading to the generation of a thesis. At least one supervisor shall be a member of the academic staff of the School/Discipline of the University in which the candidate is enrolled.
- 8.2 A professional doctorate will comprise a maximum of one-third of the assessable content by (doctoral level) coursework. If a student fails a course(s), he or she will be required to re-sit the course(s) on a full fee-paying basis.
- 8.3 On the completion of the approved program of study and research, a candidate shall submit a thesis embodying the results of that study and research, and may submit also, in support of the thesis, other relevant material. No thesis or material presented for any other degree within this or any other institution in the name of the candidate shall be so submitted.
- 8.4 The thesis shall:
- display original and critical thought
  - be a significant contribution to knowledge
  - relate the topic of research to the broader framework of the discipline within which it falls *and*
  - be clearly, accurately and cogently written and be suitably illustrated and documented.
- 8.5 The thesis may comprise a conventional written narrative presented as typescript, covering a single project or a portfolio of research. If permitted within the Specific Program Rules for the degree, the thesis may also comprise a portfolio of publications that have been published and/or submitted for publication and/or text in manuscripts or a combination of conventional written narrative presented as typescript and publications that have been published and/or submitted for publication and/or text in manuscripts (see Rules 8.6, 8.7 and 8.8).

- Work presented in the thesis must have been produced during the period of candidature.
- 8.6 Irrespective of the nature of the thesis, its content must not have been accepted for any other degree at the University of Adelaide or other academic institution. Candidates should consult the appropriate recommended declarations and the University's Specifications for Thesis.
- i A thesis that incorporates publications shall also contain: a contextual statement that normally includes the aims underpinning the publication(s); a literature review or commentary that establishes the field of knowledge and provides a link between publications; and a conclusion showing the overall significance of the work and contribution to knowledge.
  - ii A portfolio of publications submitted as a Professional Doctorate thesis must be closely related in terms of subject matter and form a cohesive research narrative.
  - iii The number and length of scholarly works included in a portfolio of publications shall be determined by Faculties in consultation with specific Discipline areas. Where the publication(s) are deemed to constitute a body of work worthy of the award, the candidate may include additional material submitted for publication.
  - iv Published works included in a thesis must have been published or accepted by publishers approved by the Discipline and in accordance with DEEWR criteria for the Higher Education Research Data Collection.
- 8.7 Where a thesis contains work attributed to joint or multiple authors, for example co-authored publications, candidates must include a clear statement of their contribution and that of the co-authors (in terms of the conceptualisation of the work, its realization and its documentation).
- 8.8 Jointly- or multi-authored works must have the signed approval of the co-author(s) attesting to the candidate's claimed contribution and authorizing the inclusion of the publication(s) in the thesis.
- 8.9 Where other materials are to be examined, the candidate must seek approval from the Research Education and Development Committee for the form and presentation of the thesis by the time of completion of the research proposal (see Rule 9.4).
- 8.10 The candidate shall present the context and importance of the research at a School/Discipline seminar.
- 8.11 The Head of School/Discipline shall certify that the thesis is worthy of examination.

## 9 Required program of activities at the commencement of candidature

- 9.1 Each candidate (including those on remote candidature) will be enrolled on a provisional basis for the first twelve months of the degree.
- 9.2 A major review of progress after twelve months will recommend confirmation of the professional doctorate candidature, or change to a Masters, or a further period of conditional enrolment not exceeding six months, or termination.
- 9.3 Candidates granted a further period of conditional enrolment will undergo a second major review at the end of this time period. No further periods of conditional enrolment will be permitted.
- 9.4 Continuation of enrolment at the end of this period will depend on overall academic progress and the completion of set activities to the satisfaction of the School/Discipline concerned. These activities will form part of the Structured Program of activities extending through the candidature.
- 9.5 Such activities will be determined by the School/Discipline through which the candidate is enrolled and in the first year must include the completion and presentation of the research proposal and other programs and skills training deemed necessary by the School/Discipline. In the case of international students, completion of the Integrated Bridging Program is also required, except in those cases where an exemption has been granted.
- 9.6 The research proposal must be agreed and submitted to the Adelaide Graduate Centre preferably within three, but no later than six months (or half-time equivalent) from the commencement of candidature.
- 9.7 A candidate who has completed the first year of a Masters program by research and who is qualified and permitted by the Committee to transfer into a Professional Doctorate will be deemed to have completed the Core Component of the Structured Program of activities and the transfer will confirm candidature in the degree.

## 10 Remote candidature

- 10.1 If permitted in the Specific Program Rules for the degree, enrolment as a remote candidate may be permitted on academic grounds where the School/Discipline concerned can ensure the provision of external supervision, facilities and affiliation to the satisfaction of the Research Education and Development Committee.
- 10.2 Unless otherwise exempted, a remote candidate will be required to complete a period(s) of residence in the University of Adelaide as determined by the Research Education and Development Committee in consultation with the School/Discipline concerned.

- 10.3 Notwithstanding Rule 10.2, a remote candidate will normally be required to undertake his/her candidature in an internal attendance mode until such time as the Core Component of the Structured Program has been completed.
- 10.4 In accordance with Rule 7, a remote candidate may proceed to the degree either by full-time or half-time study.
- 10.5 If permitted in the Specific Program Rules for the degree, on the recommendation of the School/Discipline, the Committee at any time may permit an enrolled student to enrol as a remote candidate subject to the conditions specified in 10.1, 10.2, 10.3 and 10.4 above.
- 10.6 A remote candidate may be permitted to convert to an internal mode of attendance at any time and shall be subject to the conditions normally applied.
- 10.7 Notwithstanding Rules 10.1 to 10.6 above, remote candidates are also required to abide by the other Rules and guidelines for their degree.

## 11 Joint candidature

- 11.1 Enrolment as a joint candidate may be permitted where a program of co-operation has been formally agreed between the University of Adelaide and another institution for jointly-awarded degrees.
- 11.2 When it is proposed that the candidate spend the majority of candidature away from Adelaide, the Research Education and Development Committee must approve conditions as in 10.1.
- 11.3 Upon successful completion of the work for the degree, the badges of both institutions may appear on the parchment awarded.

## 12 Review of academic progress

- 12.1 The Committee may review the progress of a candidate at any time during the program of candidature and, if the candidate's progress is unsatisfactory, may terminate the candidature.
- 12.2 A formal review of a candidate's progress shall be conducted by the School/Discipline at least once a year in accordance with guidelines determined by the Research Education and Development Committee and outlined in the Research Student Handbook.
- 12.3 A formal review of progress and confirmation of candidature will occur twelve months after enrolment (see 9.2 above). Additional reviews will occur around October each year with written reports forwarded to the Dean of Graduate Studies. A candidate's re-enrolment in the following year is conditional upon satisfactory progress in the year of the review.

## 13 Absence from the University

Except for remote candidates, the Committee, on the recommendation of the School/Discipline concerned, may permit a candidate to pursue

away from the University work connected with the research for the degree. Such permission may only be granted under special circumstances during provisional candidature.

## Leave of absence

- 14 A candidate whose work is interrupted for a period of time may be granted cumulative leave by the Committee of up to twelve months. If an application for leave is approved, all study (both research and coursework where applicable) must be intermitted. The minimum and maximum periods specified in Rule 7.3 will be adjusted accordingly by adding the length of the approved leave.
- 15 In exceptional circumstances, the Committee may grant a candidate cumulative leave in excess of 12 months. Where a student is granted this exceptional leave, the University will endeavour to ensure, but cannot guarantee, that appropriate supervision and resources will be available to support the student on return from leave.
- 16 In some fields of study, time plays a critical role in the currency of the research. In such cases, the research project may no longer be current following leave and the University may not be able to secure supervision in an area where currency is compromised. Additionally, the University may not be able to accommodate an amendment to the research project. Under these circumstances, continuation of candidature may not be possible and the only options will be:
- i withdrawal by the candidate *or*
  - ii termination of candidature by the University.
- 17 The candidature of a student who takes leave from the University without approval will be suspended immediately, on notification of the Adelaide Graduate Centre.
- 18 A candidate granted leave must inform the Adelaide Graduate Centre in writing of resumption of candidature within two weeks of the approved date of return.
- 19 A candidate seeking to extend a period of leave must apply in writing for an extension of leave at least one week prior to the originally approved date of return.

## 20 Withdrawal from candidature

A student may withdraw from candidature at any time. Candidature may be re-instated at a future date without academic consequences, subject to the continuing currency of the research undertaken prior to withdrawal and the currency of the research skills of the candidate. The approval of the Head of School and the on-going availability of appropriate supervision and resources are also required.

## 21 Suspension of candidature

A student's candidature may be suspended for failure to comply with any formal requirement of candidature, including:

- i failing to abide by the responsibilities of research candidates as detailed in the Research Student Handbook
- ii failing to undertake a required review of progress by the due date or extended due date
- iii failing to respond to any University correspondence sent to the nominated mailing address or campus email address within two months of the requested date of response
- iv failing to accept reasonable offers of supervision facilitated by the University
- v taking leave without prior approval
- vi failing to return from leave on the agreed date
- vii failing to notify the Graduate Centre of return from leave within two weeks of return
- viii non-payment of University fees and charges.

22 Re-instatement of a suspended candidature will only be permitted with the approval of the Head of School where:

- i the reason for the suspension has been addressed as specified in the Research Student Handbook
- ii the research undertaken prior to suspension remains current *and*
- iii appropriate supervision and resources are available to support the re-instated candidature.

## Termination of candidature

23 A student's candidature may be terminated where:

- i progress is unsatisfactory following a review of progress, whether programmed or otherwise *or*
- ii where candidature has been suspended by more than twelve months *or*
- iii where the candidate has failed to complete the core component of the structured program within six months or half-time equivalent of commencement.

24 A terminated candidature may only be re-instated following a successful appeal.

## 25 Extension of candidature

A candidate may be granted by the Committee one extension of candidature only of twelve months beyond the maximum period specified in Rule 7. If the thesis has not been submitted by the end of the extended period the candidature will lapse.

## 26 Completion of thesis outside the University

A candidate who has completed the equivalent of two years of full-time work under the control of the University, who has completed the experimental work (where appropriate) and whose progress is sufficiently well advanced to permit the satisfactory completion of the thesis outside the University, may be granted permission by the Committee to complete the writing-up of the thesis outside the University. If such permission is granted the candidate will be allowed either twelve months or until the end of candidature, whichever is the lesser, to submit the thesis. If the thesis has not been submitted by the end of the writing-up period the candidature will lapse.

## 27 Lapsed candidature

27.1 A candidature, which has lapsed for not more than twelve months, may be resumed if the completed thesis, which has not departed from the field of study that was being pursued before the candidature lapsed, is subsequently submitted to the Manager, Graduate Administration and Scholarships. The thesis will only be accepted for examination if the School/Discipline certifies that it is satisfactory to that School/Discipline.

27.2 Approval of the Committee is required for the resumption of a lapsed candidature under any other conditions.

## 28 Intention to submit the thesis

A candidate shall notify the Manager, Graduate Administration and Scholarships, in writing, approximately three months before he or she expects to submit the thesis required under Rule 29. A summary of the thesis, together with the proposed thesis title, shall be submitted at the same time.

## 29 Submission and examination of the thesis

29.1 On completion of the approved program of study and research a candidate shall submit a thesis embodying the results of that study and research, and may submit also, in support of the thesis, other relevant material.

29.2 The size (word-length) of a professional doctorate thesis should be in proportion to the duration of the research undertaken, which will be not less than two years full-time. As a guide, the product of a PhD thesis comprising the product of three to four years of full-time research is expected to be approximately 80,000 words, whilst a Masters by research thesis comprising the product of two years of full-time research is approximately 40,000 words in length.

29.3 The format of a thesis which incorporates publications and/or manuscripts shall be in accordance with Rules 8.6 (i) to 8.8.

- 29.4 The thesis and any other material submitted shall be assessed by examiners external to the University.
- 29.5 No thesis, material or publications presented by the candidate for any other degree within this or any other institution shall be so submitted.
- 29.6 With the exception of suitably referenced work, material, both physical and intellectual, presented for examination should have been generated during the period of candidature.
- 29.7 The Committee shall prescribe the form in which the thesis shall be submitted and the number of copies to be submitted.

### 30 Appointment of examiners

- 30.1 Candidates shall have the right, prior to the commencement of the examination process, to identify people they do not wish to examine their theses. Any such objections should be submitted to the Manager, Graduate Administration and Scholarships, at the same time as the notification of intention to submit required under Rule 28. Such objections do not serve as a veto.
- 30.2 The Committee shall appoint two examiners who are external to the University, taking account of any objections raised under Rule 30.1 and the recommendations of the Head of the relevant School/Discipline.
- 30.3 The examiners shall be requested to report in such form as the Committee will determine and to recommend one of the alternatives listed in Rule 31.
- 30.4 After consideration of the reports of the examiners, the Committee may appoint a third external examiner and/or an external arbitrator.

### 31 Examination results

After consideration of the reports of the examiners and such other information as it thinks fit, the Committee shall determine that:

- a the candidate be awarded the degree *or*
- b the candidate be awarded the degree but that minor amendments be made to the thesis *or*
- c the candidate be awarded the degree subject to the specified amendments being made to the thesis *or*
- d the candidate be not awarded the degree but be permitted to re-submit the thesis in a revised form *or*
- e the candidate be awarded the appropriate degree of Master *or*
- f the candidate be awarded the appropriate degree of Master upon making suitable amendments to the thesis *or*
- g the candidate be not awarded the degree or the appropriate degree of Master.

- 32 In the case of a thesis presented for re-examination as provided for in Rule 31(d), the thesis will, as far as possible, be assessed by the original examiners.
- 33 A thesis submitted for re-examination must be presented in the same format as the thesis presented for the original examination.
- 34 A thesis presented for re-examination will not be submitted for further re-examination.

### Thesis amendments following examination

- 35 The time limits for revision of the thesis are:
- i three months where the examination result is to award the degree following minor amendments to the thesis [see Rule 31(b)] or where the examination result is to award the degree subject to the specified amendments being made to the thesis [see Rule 31(c)] *and*
  - ii twelve months where the examination result is not to award the degree but to permit re-submission of the thesis in a revised form [see Rule 31(d)].
- 36 Candidates who require additional time to complete revisions must apply to the Dean of Graduate Studies for permission, stating the reasons for the request. The request should be endorsed by the principal supervisor and the Head of School/Discipline or the Postgraduate Coordinator.

### 37 Deposit of thesis

Such number of copies of a thesis and any other material on which the degree is awarded shall be deposited in the Barr Smith Library or elsewhere as determined by the Committee. Unless otherwise determined by the Committee, the copies shall be available for loan and photocopy.

### 38 Loan or photocopy of thesis

A candidate who does not wish to allow the thesis to be lent or photocopied when it is deposited in the Library under Rule 37 shall make a written application to the Manager, Graduate Administration and Scholarships, at the same time as he or she notifies his or her intention to submit under Rule 28. The withholding of such permission and the period of time involved shall be determined by the Committee.

### 39 Posthumous award

If a person dies after completing, or in the opinion of the Committee, substantially completing the requirements of the award, the University may confer the award posthumously.

#### **40 Revoking the award**

If the Committee is satisfied that, when the Doctorate was conferred on a person, the person

- a did not possess the relevant qualifications *or*
- b had not completed the necessary requirements, the Vice-Chancellor with authority devolved to him/her by Council may revoke the award. Upon revocation, the person is taken never to have received the award.

#### **41 Return of documents**

If requested by the Dean of Graduate Studies, the recipient of a Doctorate must deliver to the University the documents certifying or evidencing the award.

#### **42 General**

When, in the opinion of the Research Education and Development Committee, special circumstances exist the Committee, on the recommendation of the relevant School/Discipline in each case, may vary any of the provisions in Rules 1-41 above.



# Masters Degrees by Research

The General Academic Program Rules shall apply to all Masters by Research programs at the University of Adelaide. Specific Academic Program Rules for other Masters by Research awards have been developed within the framework of these General Masters Rules and are listed under their respective Faculty/School. The following academic programs have no specific Academic Program Rules and therefore are bound entirely by the General Masters Program Rules:

- Master of Agricultural Science
- Master of Applied Science
- Master of Design Studies
- Master of Design Studies (Landscape)
- Master of Science
- Master of Urban Design

1 All students must comply with both the General and Specific Academic Program Rules and are advised to refer to them to gain an understanding of their rights and responsibilities regarding program matters.

## 2 Rules

The Research Education and Development Committee may from time to time approve guidelines on any matters included in these Rules and may authorise the Dean of Graduate Studies or the Manager, Graduate Administration and Scholarships, to act in accordance with such guidelines without reference to the Committee in each case. Notwithstanding this, Faculties may develop their own specific guidelines as permitted within the framework of these Rules.

## 3 Definitions

- 3.1 A Masters Degree by Research shall, in general, have the objectives of
- a training students in research methodology and techniques
  - b developing critical evaluation skills appropriate to their research topic
  - c training students in the application of such methods by conducting a specified program of research under appropriate supervision and the development of new knowledge where possible
  - d providing training in literature analysis *and*
  - e encouraging debate in the substantive area of the thesis at an advanced level.
- 3.2 Examiners for a Masters degree should satisfy themselves that the candidate has
- a a thorough understanding of the relevant methodology as demonstrated by a thorough critical review of the literature

- b demonstrated competence through judicious selection and application of appropriate methods to yield meaningful results
- c demonstrated the capacity to evaluate critically these results and presented a clear and well written thesis in accordance with the format specified in 8.3 below.

## 4 Academic standing

- 4.1 The academic standing required for acceptance as a candidate for a Master degree by research in the University shall be a relevant Honours degree of Bachelor or a relevant degree of Master of the University of Adelaide or the equivalent thereof. Where an Honours or Masters degree is presented as a qualification for admission to a Masters by Research program, the Masters degree must contain a research component deemed appropriate by the Research Education and Development Committee. An Honours or Masters degree that contains only coursework will not be accepted for this purpose. .
- 4.2 A person who holds a relevant Honours or Master degree of another university or equivalent thereof, may be accepted as a candidate provided that the program of study undertaken and the academic standard reached are equivalent to those required of a candidate who is a graduate of the University of Adelaide.
- 4.3 The Committee may accept as a candidate a graduate who does not qualify under Rules 4.1 or 4.2 but has demonstrated a high level of academic achievement and
- a has completed to the satisfaction of the Committee at least one year of full-time postgraduate study or research and passed a qualifying examination of Honours standard prescribed by the appropriate Faculty and approved by the Committee *or*
  - b obtained a qualification that includes a significant research component *or*

- c is experienced in research as evidenced by research publications or written reports on research work done by the applicant.
- 4.4 Applicants for a Masters degree by Research must satisfy the minimum English language proficiency requirement as set by the university.

## 5 Credit for work previously completed

- 5.1 At the time of application, the Committee may grant credit in a Master by Research program for research undertaken in another program in the University or in another university or tertiary institution.
- 5.2 In consideration for acceptance under Rule 5.1, the Committee must be satisfied that
- a the person is of such academic standing as would be required of other candidates for the degree *and*
  - b the person's progress so far has been satisfactory and the research for which credit is granted is of a satisfactory standard.

## 6 Enrolment

- 6.1 A person shall not be enrolled as a candidate for the degree unless:
- a the applicant's proposed field of study and research is acceptable to the University and the School/Discipline responsible for the supervision of the candidate's work
  - b there are available at least two supervisors able to provide supervision of the proposed candidacy throughout its likely duration. The principal supervisor shall be a member of the academic staff of the School/Discipline of the University in which the candidate is enrolled *and*
  - c suitable resources and facilities are available (either in the University or, by arrangement acceptable to the Faculty, elsewhere) for the proposed research to be undertaken.
- 6.2 Except with the permission of the Dean of Graduate Studies, a candidate may not enrol concurrently in another academic program
- 6.3 Except with the permission of the Dean of Graduate Studies, a candidate who is permitted to enrol concurrently in another academic program and who is granted leave must intermit all academic programs in which he or she is enrolled.

## 7 Duration of candidature and mode of study

- 7.1 A candidate may proceed to the degree by full-time study or, if the Head of the School/Discipline concerned is satisfied that the candidate has adequate time to pursue supervised research under the control of the University, by half-time study. Except in circumstances approved by the

Committee, the work for the degree shall be completed and the thesis submitted:

- 7.2
- a in the case of a full-time candidate, not less than one year nor more than two years from the date of commencement of candidature
  - b in the case of a half-time candidate, not less than two years nor more than four years from the date of commencement of candidature
  - c in the case of a candidate granted credit under Rule 5.1, the candidature shall normally expire:
    - i in the case of a full-time candidate, not less than one year and not more than two years from the date the candidate commenced work in the other program *or*
    - ii in the case of a half-time candidate, not less than two years and not more than four years from the date the candidate commenced work in the other program.

## 8 Work for the degree

- 8.1 A candidate shall pursue an approved program of study and research under the control of the University and under the general guidance of supervisors appointed by the University leading to the generation of a thesis.
- 8.2 Where a Master by research program contains course work, the candidate shall be required to pass both the course work and thesis components independently but, in exceptional circumstances, this requirement may be waived by the Committee.
- 8.3
- a The University recognises that a thesis may take a variety of formats that are influenced by the discipline or field of study. Students should consult their supervisor(s) and the University's Specifications for Thesis and, if applicable, the Specific Academic Program Rules, to determine the most appropriate format.
  - b Work presented in the thesis must have been produced during the period of candidature.
  - c Published works included in a thesis under these Rules must have been published or accepted by publishers approved by the Discipline and in accordance with DEEWR criteria for the Higher Education Research Data Collection.
  - d Where appropriate, texts may be submitted in manuscript form and suitably identified as such.
- 8.4 Irrespective of the nature of the thesis, its content, in part or in total, must not have been accepted for any other degree at the University of Adelaide or other academic institution in the name of the candidate. Candidates should consult the appropriate recommended declarations and the University's Specifications for Thesis.
- i A thesis that incorporates publications shall also contain: a contextual statement that normally includes the aims underpinning the publication/s; a literature review or



- commentary that establishes the field of knowledge and provides a link between publications; and a conclusion showing the overall significance of the work and contribution to knowledge.
- ii Where a portfolio of publications is submitted, as a Master by Research thesis or is combined with conventional written narrative, the publications must be closely related in terms of subject matter and form a cohesive research narrative.
  - iii The number and length of scholarly works included in a portfolio of publications shall be determined by Faculties in consultation with specific Discipline areas. Where the publication/s are deemed to constitute a body of work worthy of the award, the candidate may include additional material submitted for publication.
- 8.5 Where a thesis contains work attributed to joint or multiple authors, for example co-authored publications, candidates must include a clear statement of their contribution and that of the co-authors (in terms of the conceptualization of the work, its realization and its documentation).
- 8.6 Jointly- or multi-authored works must have the signed approval of the co-author(s) attesting to the candidate's claimed contribution and authorizing the inclusion of the publication(s) in the thesis.
- 8.7 A thesis should not normally exceed 40,000 words.
- 8.8
- i Creative work may be in the form of exhibition, music composition or performance, literary work, film or other format approved by the Research Education and Development Committee.
  - ii The creative work should provide a coherent demonstration that the candidate has reached an appropriate standard in the research and has made a significant and original contribution to knowledge in the area. The creative work should be the research outcome, while the exegesis that accompanies it should describe the research process and elaborate, elucidate and place in context the artistic practice undertaken.

## 9 Required program of activities at the commencement of candidature

- 9.1 Each candidate (including those on remote candidature) will be enrolled on a provisional basis for the first twelve months of the degree.
- 9.2 A major review of progress after twelve months will recommend confirmation of Masters candidature, or a further period of conditional candidature not exceeding six months, or termination.
- 9.3 Candidates granted a further period of conditional enrolment will undergo a second major review at the end of this time period. No further periods of conditional enrolment will be permitted.

- 9.4 Continuation of enrolment at the end of this period will depend on overall academic progress and the completion of set activities to the satisfaction of the School/Discipline concerned. These activities will form part of a Structured Program of activities extending through the candidature.
- 9.5 Such activities will be determined by the School/Discipline through which the candidate is enrolled and in the first year must include the completion and presentation of the research proposal and other programs and skills training deemed necessary by the School/Discipline. In the case of international students, completion of the Integrated Bridging Program is also required, except in those cases where an exemption has been granted.
- 9.6 The research proposal must be agreed and submitted to the Adelaide Graduate Centre preferably within three, but no later than six months (or half-time equivalent) from the commencement of candidature.
- 9.7 A candidate who has completed the first year of a Master by research program and who is qualified and permitted by the Committee to transfer to the degree of Doctor of Philosophy will be deemed to have completed the Core Component of the Structured Program and the transfer will confirm candidature in the PhD.

## 10 Remote candidature

- 10.1 Initial enrolment as a remote candidate may be permitted on academic grounds where the School/Discipline concerned can ensure the provision of external supervision, facilities and affiliation to the satisfaction of the Research Education and Development Committee.
- 10.2 Unless otherwise exempted, a remote candidate will normally be required to complete a period/s of residence in the University of Adelaide as determined by the Research Education and Development Committee in consultation with the School/Discipline concerned.
- 10.3 Notwithstanding Rule 10.2, a remote candidate will normally be required to undertake his/her candidature in an internal attendance mode until such time as the Core Component of the Structured Program has been completed.
- 10.4 In accordance with rule 7.1, a remote candidate may proceed to the degree either by full-time or half-time study.
- 10.5 On the recommendation of the School/Discipline, the Committee at any time may permit an enrolled student to enrol as a remote candidate subject to the conditions specified in 10.1, 10.2 and 10.3 above.
- 10.6 A remote candidate may be permitted to convert to an internal mode of attendance at any time and shall be subject to the conditions normally applied.
- 10.7 Notwithstanding Rules 10.1 to 10.6 above, remote candidates are also required to abide by the other

Rules and guidelines for the degree of Master by Research.

## 11 Review of academic progress

- 11.1 The Committee may review the progress of a candidate at any time during the program of candidature and, if the candidate's progress is unsatisfactory, may terminate the candidature.
- 11.2 Progress and confirmation of candidature will occur twelve months after enrolment (see 9.2 above). Additional reviews will occur around October each year with written reports forwarded to the Dean of Graduate Studies. A candidate's re-enrolment in the following year is conditional upon satisfactory progress in the year of the review.

## 12 Absence from the University

Except for remote candidates, the Committee, on the recommendation of the School/Discipline concerned, may permit a candidate to pursue away from the University work connected with the research for the degree. Such permission may only be granted under special circumstances during provisional candidature.

## 13 Leave of absence

A candidate whose work is interrupted for a period of time may be granted cumulative leave by the Committee of up to twelve months. If an application for leave is approved, the minimum and maximum periods specified in Rule 7.1 will be adjusted accordingly by adding the length of the approved leave.

- 14 In exceptional circumstances, the Committee may grant a candidate cumulative leave in excess of 12 months. Where a student is granted this exceptional leave, the University will endeavour to ensure, but cannot guarantee, that appropriate supervision and resources will be available to support the student on return from leave.
- 15 In some fields of study, time plays a critical role in the currency of the research. In such cases, the research project may no longer be current following leave and the University may not be able to secure supervision in an area where currency is compromised. Additionally, the University may not be able to accommodate an amendment to the research project. Under these circumstances, continuation of candidature may not be possible and the only options will be:
- i withdrawal by the candidate *or*
  - ii termination of candidature by the University.
- 16 The candidature of a student who takes leave from the University without approval will be suspended immediately, on notification of the Adelaide Graduate Centre.
- 17 A candidate granted leave must inform the Adelaide Graduate Centre in writing of resumption of candidature within two weeks of the approved date of return.

- 18 A candidate seeking to extend a period of leave must apply in writing for an extension of leave at least one week prior to the originally approved date of return.

## 19 Withdrawal from candidature

A student may withdraw from candidature at any time. Candidature may be reinstated at a future date without academic consequences, subject to the continuing currency of the research undertaken prior to withdrawal and the currency of the research skills of the candidate. The approval of the Head of School and the ongoing availability of appropriate supervision and resources are also required.

## 20 Suspension of candidature

A student's candidature may be suspended for failure to comply with any formal requirement of candidature, including:

- i failing to abide by the responsibilities of research candidates as detailed in the Research Student Handbook  
Failing to undertake a required review of progress by the due date or extended due date
- ii failing to respond to any University correspondence sent to the nominated mailing address or campus email address within two months of the requested date of response,
- iii failing to accept reasonable offers of supervision facilitated by the University
- iv taking leave without prior approval
- v failing to return from leave on the agreed date
- vi failing to notify the Graduate Centre of return from leave within two weeks of return *and*
- vii Non-payment of University fees and charges.

## 21 Termination of candidature

A student's candidature may be terminated where:

- i progress is unsatisfactory following a review of progress, whether programmed or otherwise *or*
  - ii where candidature has been suspended for more than twelve months *or*
  - iii where the candidate has failed to complete the core component of the structured program within six months or half-time equivalent of commencement.
- 22 A terminated candidature may only be reinstated following a successful appeal.

## 23 Extension of candidature

Irrespective of full time or half time status, a candidate may be granted by the Committee one extension of candidature only of six months beyond the maximum period specified in Rule 7.1. If the thesis has not been submitted by the end of the extended period, the candidature will lapse.

## 24 Completion of thesis outside the University

A candidate who has completed the equivalent of one year of full-time work under the control of the University, who has completed the experimental work (where appropriate) and whose progress is sufficiently well advanced to permit the satisfactory completion of the thesis outside the University, may be granted permission by the Committee to complete the writing-up of the thesis outside the University. If such permission is granted the candidate will be allowed either twelve months or until the end of candidature, whichever is the lesser, to submit the thesis. If the thesis has not been submitted by the end of the writing-up period the candidature will lapse.

## 25 Lapsed candidature

- 25.1 The candidature of a candidate who has failed to submit his/her thesis by the end of his/her candidature, unless otherwise withdrawn, suspended, or terminated, shall be deemed to have lapsed.
- 25.2 A candidature, which has lapsed for not more than twelve months, may be resumed if the completed thesis, which has not departed from the field of study that was being pursued before the candidature lapsed, is subsequently submitted to the Manager, Graduate Administration and Scholarships. The thesis will only be accepted for examination if the School/Discipline certifies that it is satisfactory to that School/Discipline.
- 25.3 Approval of the Committee is required for the resumption of a lapsed candidature under any other conditions.

## 26 Intention to submit thesis

A candidate shall notify the Manager, Graduate Administration and Scholarships, in writing, approximately three months before he or she expects to submit a thesis for examination. A summary of the thesis, together with the proposed thesis title, shall be submitted at the same time.

## 27 Submission and examination of the thesis

- 27.1
  - a On completion of the approved program of study and research a candidate shall submit a thesis embodying the results of that study and research, and may submit also, in support of the thesis, other relevant material.
  - b The thesis shall embody the values described in Rule 3.2.
- 27.2 The format of a thesis which incorporates publications and/or manuscripts shall be in accordance with Rules 8.6 to 8.8.

- 27.3 The Head of School/Discipline shall certify that the thesis is worthy of examination.
- 27.4 In the case of a thesis submitted in the areas of musical, artistic or visual practice, presentation may be in one of three forms, a) by a theoretical thesis or b) by one or more creative works and an exegesis or c) a series of music performance recordings and an exegesis.
- 27.5 In the case of a thesis submitted in the areas of musical, artistic or visual practice, the creative work and the exegesis will not be examined separately but as an integrated whole constituting the original and substantial contribution to knowledge required from Masters' candidates.
- 27.6 In the case of visual arts, the examiners will attend the exhibition at which time they will be given a copy of the exegesis in temporary binding. A final copy of the exegesis will be provided to the examiners within three months of their viewing the creative work.
- 27.7 The thesis and any other material submitted shall be assessed by examiners external to the University.
- 27.8 No thesis, material or publications presented for any other degree within this or any other institution shall be so submitted.
- 27.9 With the exception of suitably referenced work, material, both physical and intellectual, presented for examination should have been generated during the period of candidature
- 27.10 The Committee shall prescribe the form in which the thesis shall be submitted and the number of copies to be submitted.

## 28 Appointment of examiners

- 28.1 Candidates shall have the right, prior to the commencement of the examination process, to identify people they do not wish to examine their theses. Any such objections should be submitted to the Manager, Graduate Administration and Scholarships, at the same time as the notification of intention to submit required under Rule 26. Such objections do not serve as a veto.
- 28.2 Assessment of the thesis shall in every case be by no fewer than two examiners appointed by the Committee of whom:
  - a at least one shall be external to the University
  - b at least one shall be an academic member or affiliate of a tertiary institution.
- 28.3 The candidate's supervisors shall not be eligible to act as examiners.
- 28.4 The examiners shall be requested to report in such form as the Committee will determine and to recommend one of the alternatives listed in Rule 29.1.
- 28.5 After consideration of the reports of the examiners, the Committee may appoint a third external examiner and/or an external arbitrator.

## 29 Examination results

29.1 After consideration of the reports of the examiners and such other information as it thinks fit, the Committee shall determine that:

- a the candidate be awarded the degree *or*
- b the candidate be awarded the degree but that minor amendments be made *or*
- c the candidate be awarded the degree subject to the specified amendments being made to the thesis *or*
- d the candidate be not awarded the degree but be permitted to re-submit the thesis in revised form within one year *or*
- e the candidate be not awarded the degree.

29.2 In the case of a thesis presented for re-examination as provided for in Rule 29.1(d), the thesis will, as far as possible, be assessed by the original examiners.

29.3 A thesis presented for re-examination will not be submitted for further re-examination.

## 30 Thesis amendments following examination

The time limits for revision of the thesis are:

- i three months where the examination result is to award the degree following minor amendments to the thesis (see Rule 29.1(b)), or where the examination result is to award the degree subject to the specified amendments being made to the thesis (see Rule 29.1(c)) *and*
  - ii twelve months where the examination result is not to award the degree but to permit resubmission of the thesis in a revised form (see Rule 29.1(d)).
- 31 Candidates who require additional time to complete revisions must apply to the Dean of Graduate Studies for permission, stating the reasons for the request. The request should be approved by the principal supervisor and the Head of School/ Discipline or the Postgraduate Coordinator.

## 32 Deposit of thesis

Such number of copies of a thesis and any other material on which the degree is awarded shall be deposited in the Barr Smith Library or elsewhere as determined by the Committee. Unless otherwise determined by the Committee, the copies shall be available for loan and photocopy.

## 33 Loan or photocopy of thesis

A candidate who does not wish to allow the thesis to be lent or photocopied when it is deposited in the Library under Rule 32 shall make a written application to the Manager, Graduate Administration and Scholarships, at the same time as he or she notifies his or her intention to

submit under Rule 26. The withholding of such permission and the period of time involved shall be determined by the Committee.

## 34 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.

## 35 Posthumous award

If a person dies after completing, or in the opinion of the Committee, substantially completing the requirements of the award, the University may confer the award posthumously.

## 36 Revoking the award

If the Committee is satisfied that, when the Master by Research was conferred on a person, the person

- (a) did not possess the relevant qualifications *or*
- (b) had not completed the necessary requirements, the Vice-Chancellor with authority devolved to her/him by Council may revoke the award.

Upon revocation, the person is taken never to have received the award.

## 37 Return of documents

If requested by the Dean of Graduate Studies, the recipient of a Master by Research must deliver to the University the documents certifying or evidencing the award.

## 38 General

When, in the opinion of the Research Education and Development Committee, special circumstances exist, the Committee, on the recommendation of the relevant Faculty in each case, may vary any of the provisions in Rules 1-37 above.



# Higher Degrees by Research

This document must be read in conjunction with:

- (a) the Academic Program Rules for the relevant degree/s which are published in Volume II of the University Calendar *and*
- (b) the Research Student Handbook, published by the Adelaide Graduate Centre.

These documents explain procedures to be followed and contain guidelines on supervision and research for the degree of Doctor of Philosophy and the various professional doctorates and Masters degrees by research offered by the University of Adelaide. These degrees are awarded mainly on the successful examination of a thesis prepared by the student under supervision and embodying the results of a period of research. (Faculties may also apply these guidelines to the research components of those Masters degrees which have an advanced study or coursework component and a research component.)

These documents are intended for use by supervisors and students throughout the period of candidature and will be a useful reference for intending students, Heads of Schools/Disciplines and Postgraduate Coordinators.

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## 1 The enrolment process

### 1.1 The decision to enrol

Several factors must be taken into account by a potential student and the Head of the relevant School/Discipline before a decision is made about enrolling in a higher degree.

#### a Academic

In general, it is necessary for the potential student to have qualified for an Australian university honours degree (first or second class) or its equivalent, or higher.

#### b Finance

Doctorates and Masters by Research can be completed on a half-time basis, so that it is possible for students, in some instances, to be self-supporting from sources other than scholarships while enrolled. The University and the Commonwealth Government each offers a limited number of postgraduate scholarships annually almost exclusively to full-time students. Details of the scholarships available may be obtained from the Adelaide Graduate Centre.

Schools and Disciplines receive funding which is based (in part) on the number of postgraduate students enrolled in the School/Discipline, and they are expected to provide adequate equipment and funds for the research to be carried out. In particular, the development of the research proposal must take account of both the academic acceptability of the project and the resource implications for the School/Discipline and Faculty concerned.

#### c Choice of research topic and supervisors

A person who is contemplating enrolling for a higher degree should discuss the proposed candidature with the Head or Postgraduate Coordinator and members of the relevant

School(s)/Discipline(s), and a decision must be made before the commencement of the candidature on the general area of study and the supervisors to be appointed to guide the student in the research. Since it is important that the supervisors are active in the general area of research which is chosen, it is clear that the choice of the research topic and supervisors are inter-related and decisions on both matters will need to be made together.

Guidelines for the supervision of higher degree by research students are outlined in the Research Student Handbook. Intending students may find it useful to discuss the general approach to supervision with potential supervisors at the outset. Clear understandings on issues such as how closely the work is to be supervised, the planned frequency of meetings between supervisors and students, the expectation of such meetings and the nature and level of commentary on the various stages of the work should be reached as soon as the supervisor has been appointed.

Where a student is to participate in a team project, the student's specific contribution to the project and the relationship with other participants should be clarified at the outset.

Where a student is to enrol in the Program remotely (refer Section 3 below), appropriate external supervision must be confirmed by the Head of School/Discipline, and approved by the Research Education and Development Committee, prior to enrolment. External supervisors should be affiliated with an appropriate university or research facility.

### 1.2 Enrolment

Research students are advised to enrol and commence their studies at the beginning of either Semester I or Semester II, as appropriate, so that

they can participate in the Structured Program organised by their respective Faculty/School/Discipline and the compulsory Induction Program organised by the Adelaide Graduate Centre.

Enrolment forms are issued only when an application for candidature has been accepted. In the case of an applicant who had previously enrolled in a program in the University of Adelaide, an enrolment form will NOT be issued if the applicant has outstanding financial or other obligation/s with the University. If you are in such a position, please contact the Student Centre for further details. Completed forms must be returned before the date on which work commences for the degree.

## 2 The Structured program

Each student commencing a Doctorate or Masters by Research is required to complete a Structured Program. The program comprises a Core Component to be completed within six months from the commencement of candidature (or half-time equivalent) and a Development Component that extends for the duration of candidature. The Core Component involves at a minimum the completion and presentation of a detailed research proposal at a School/Discipline seminar, participation in a School/Discipline induction and regular attendance of the School/Discipline seminar program. Students will be required to complete and submit the Completion of the Core Component of the Structured Program form to the Adelaide Graduate Centre upon completion of the Core Component.

The focus of the Development Component is on acquiring professional and transferable skills that will facilitate the student's transition to a range of work environments. Participation in Development Component activities will be monitored as part of the Annual Review of Progress.

### 2.1 The Integrated Bridging Program (IBP) for international research students

Where applicable, international students, who have not been granted an exemption, are required to complete the Integrated Bridging Program as part of the Core Component of the Structured Program. The IBP is an innovative and successful 12-week program to help international research students gain access quickly and effectively to the academic, linguistic and cultural conventions of postgraduate study in their School or Discipline within the University of Adelaide. It usually focuses on supporting students in the production of a literature review and a research proposal, presented both as an oral presentation and as a written document. On arrival, all international research students should contact the IBP staff in the Adelaide Graduate Centre to discuss how the program can best contribute to supporting their progress.

## 3 Remote program for Higher Degrees by Research

Application for enrolment in the Remote Program must be made on the appropriate form. Special conditions will apply and applications are considered by the Research Education and Development Committee on a case by case basis. A period of residence at the University of Adelaide will be required. The Head of School/Discipline must ensure that appropriate external supervision and facilities are available before recommending to the Research Education and Development Committee that a student be permitted to enrol in the Remote Program.

If the status of candidature is to be full-time, the Research Education and Development Committee must be satisfied that the student is able to devote full attention to the research project. Accordingly, the student must provide documentation supporting the application in the form of, for example, a supporting letter from the external supervisor and/or the Head of the institution or facility in which the student is to undertake the research and this must be accepted by the School/Discipline and the Research Education and Development Committee.

The financial implications of the student's research project must be negotiated and clarified between the School/Discipline, and any other external institution that is involved in providing supervision or facilities, in advance of confirmation of the student's candidature. The University cannot accept any retrospective financial claims. Similarly, any claims to be made on the intellectual property generated by the student must be negotiated between and confirmed with all parties concerned in advance of confirmation of the student's candidature.

As with other internal students, Remote students will also be subject to the normal Academic Program Rules and policies, including reviews of academic progress and annual re-enrolment. The University of Adelaide will at all times retain the ultimate authority over all matters pertaining to the student's candidature, the process of examination of the thesis and the award of the degree.

## 4 Intellectual property

In instances where a student and supervisor identify a general area of research in a commercially sensitive area, the student must sign a Student Project Participation Agreement (SPPA) with the University at the time of enrolment or as soon as possible thereafter.

If a potential student is an employee of another organisation, a formal agreement must be reached between the University and the student's employer with respect to the ownership of any intellectual property arising from the research, preferably prior to enrolment.

The SPPA or any agreement between the University and a student's employer must be signed before the completion of the Core Component of the Structured Program.

## **5 Further information**

Intending students requiring further information are requested to contact the Adelaide Graduate Centre.



# Specifications for Thesis

## 1 Preparation

The responsibility for the layout of the thesis and selection of the title rests with the student after discussion with the supervisor(s). Students must consult with their Supervisors concerning selection of an appropriate style for the thesis. The student's supervisor(s) and Head of School or Discipline must provide certification that the thesis is worthy of examination and that the technical presentation of the thesis is satisfactory.

Candidates submitting a thesis in the creative arts must consult the specific rules relative to that degree.

Candidates submitting a professional doctorate thesis must consult the General Academic Program Rules for Professional Doctorates and, if applicable, the Specific Academic Program Rules relative to the degree.

## 2 Thesis format and word length

A Doctoral thesis may comprise a conventional written narrative presented as typescript, a combination of conventional written narrative presented as typescript and publications that have been published and/or submitted for publication and/or text in manuscripts, or a single major publication such as a book, or a portfolio of publications that have been published and/or submitted for publication and/or text in manuscripts, or creative or visual work/s.

A Masters by Research thesis may comprise a conventional written narrative presented as typescript, or a portfolio of creative or visual works and, where acceptable to the Faculty, a combination of conventional written narrative presented as typescript and publications that have been published and/or submitted for publication and/or text in manuscripts, or a single major publication such as a book, or a portfolio of publications that have been published and/or submitted for publication and/or text in manuscripts.

Any thesis submitted for examination must fulfill Rule 2.1 regarding word-length of thesis.

- 2.1 Irrespective of the nature of the thesis, the word length, including footnotes but excluding appendices, tables, diagrams, bibliography and references, shall not exceed 80,000 words in the case of a Doctoral thesis or 40,000 words in the case of a Master by Research thesis (see PhD rule 8.7).

See Rule 29.2 of the General Academic Program rules of the Professional Doctorates for the length of a professional doctorate thesis.

- 2.2 The thesis should incorporate in the following order
- a a title page giving the title of the thesis in full, the name of the student, the name of the School/ Discipline(s) of the University associated with the work and the date (month and year) when submitted for the degree. Students should ensure that the thesis title is written in title case and does not exceed the character limit of 300 (including spaces).
  - b a table of contents
  - c an abstract of the thesis in not more than five hundred words
  - d a statement signed and dated by the student declaring the originality of the work, consent for the thesis to be made available to the university library and the situation with respect to copyright where applicable
- See Section 3 for examples of declarations to be included where:
- i thesis does not contain work already in the public domain
  - ii a thesis contains publications (i.e. where the work includes published papers).
- If the student has any objections to including this statement the student must apply in writing to the Adelaide Graduate Centre, preferably prior to submission, for a period of embargo to be placed on the thesis.
- e an acknowledgment of any help given or work carried out by any other person or organisation.
- If a student has sought professional editorial advice, the name of the editor and a brief description of the service rendered should be included in the acknowledgements. Should the professional editor's current or former area of academic specialisation be similar to that of the candidate this should be noted.
- See Section 4 for details of the University's policy on editing.
- f the main body of work (which may include either text or, as specified in clauses 2.2 and 2.3 respectively, a contextual statement and a portfolio of publications or creative works.
  - g appendices (if any)
  - h bibliography.
  - i additional pages or other material not suitable for binding should normally be placed near the back of the thesis as an appendix and treated as indicated in 8.2(d) - (h).



- 2.3 In the case of a thesis presented entirely or in part of published and/or accepted publications and/or manuscripts, the following requirements apply, in addition to those outlined in 2.2:

A title page, a table of contents and an abstract as per 2.2(a) - (c),

A declaration in accordance with 2.2(d),

An acknowledgement of any help given as per 2.2(e),

Statements of the contributions of jointly authored papers (see (a) below)

The main body of work in accordance with 2.2(f) (see (b) below) *and*

Appendices, bibliography and additional pages or material as per 2.2(g) - (i).

- a The length of a major publication and the number and length of scholarly works included in a portfolio of publications shall be determined by Faculties in consultation with specific Discipline areas. Where the publication(s) are deemed to constitute a body of work worthy of the award, the candidate may include additional material submitted for publication.
- b where papers have joint- or multiple- authorship, they must be accompanied by a clear statement of the contribution (in terms of the conceptualization of the work, its realization and its documentation) made by the candidate and all other authors. The statement must be sufficiently detailed to describe accurately the contribution of each author. All authors are required to sign the statement and co-authors must give written permission for the paper to be included in the thesis. Original signatures are preferred but scanned signatures are acceptable.
- c the main body of work should contain in addition to the relevant publications a contextual statement which normally includes the aims underpinning the publication(s); a literature review or commentary which establishes the field of knowledge and provides a link between publications; and a conclusion showing the overall significance of the work and contribution to knowledge, problems encountered and future directions of the work. The discussion should not include a detailed reworking of the discussions from individual papers within the thesis.

- 2.4 In the case of a doctoral thesis submitted in the areas of musical, artistic or visual practice the thesis should incorporate in the following order:

A title page, a table of contents and an abstract as per 2.2(a) - (c),

A declaration in accordance with 2.2(d),

An acknowledgement of any help given as per 2.2(e),

The main body of work in accordance with 2.2(f) (see (a) below) *and*

Appendices, bibliography and additional pages or material as per 2.2(g) - (i),

- a The main body of work may be in one of three forms:
  - i by a theoretical thesis which may include either text or a portfolio of publications  
*or*
  - ii by creative work(s) and exegesis. In the case of the PhD, the creative or visual work should be a substantial opus and the criteria for this work should be determined by the Faculty. Such substantial works would normally include a book length work appropriate to its genre or musical compositions which require more than 75 minutes for performance. In the case of the Masters degree, the musical compositions will normally require not less than 50 minutes and not more than 60 minutes for performance  
*or*
  - iii by recorded musical performances and exegesis. For the PhD, the recordings shall constitute a substantial body of work of up to four hours duration, for the Masters, the recordings shall constitute two sixty minute public recitals.

The length and format of the exegesis should be determined by the Faculty but normally, for the PhD, should not exceed 50,000 words in the case of a creative or visual work, 10,000 - 15,000 words in the case of music composition and 15,000 words in the case of music performance. For the Masters degree, the exegesis normally should not exceed 7,500 words. The exegesis should contain a description of the form and presentation of the artistic practice which constitutes the remainder of the thesis and inter alia, an analytical commentary and consideration of the work in the broader framework of the discipline and/or repertory. It should demonstrate mastery of the conceptual and scholarly skills associated with higher degree candidature.

In the case of a written exegesis or thesis and visual works both presented in the format of a compact disc, the written exegesis or textual portion of the thesis shall also be presented in hard copy and must be presented in accordance with the guidelines.

## 3 Examples of thesis declarations

### 3.1 For a thesis that does not contain work already in the public domain

This work contains no material which has been accepted for the award of any other degree or diploma in any university or other tertiary institution to <name of student> and, to the best

of my knowledge and belief, contains no material previously published or written by another person, except where due reference has been made in the text.

I give consent to this copy of my thesis, when deposited in the University Library, being made available for loan and photocopying, subject to the provisions of the Copyright Act 1968.

I also give permission for the digital version of my thesis to be made available on the web, via the University's digital research repository, the Library catalogue, the Australasian Digital Theses Program (ADTP) and also through web search engines, unless permission has been granted by the University to restrict access for a period of time.

### 3.2 For a thesis that contains publications

This work contains no material which has been accepted for the award of any other degree or diploma in any university or other tertiary institution to <name of student> and, to the best of my knowledge and belief, contains no material previously published or written by another person, except where due reference has been made in the text.

I give consent to this copy of my thesis when deposited in the University Library, being made available for loan and photocopying, subject to the provisions of the Copyright Act 1968.

The author acknowledges that copyright of published works contained within this thesis (as listed below\* ) resides with the copyright holder(s) of those works.

I also give permission for the digital version of my thesis to be made available on the web, via the University's digital research repository, the Library catalogue, the Australasian Digital Theses Program (ADTP) and also through web search engines, unless permission has been granted by the University to restrict access for a period of time.

\* The thesis declaration must include a list of all publications or works contained within the thesis and include the bibliographical details of the copyright holder(s) for each work.

## 4 Editing

The University has adopted the policy developed by the Deans and Directors of Graduate Studies collaboratively with the Council of Australian Societies of Editors with regard to the editing of research theses by professional editors.

The policy has been developed with close attention to the current Australian Standards for Editing Practice (ASEP) and it espouses the following principles:

A professional editor may be used by students in preparing their theses for submission provided that the editing assistance is restricted to ASEP Standards for 'Language and Illustrations' and for 'Completeness and Consistency'. Where a

professional editor provides advice on matters of 'Substance and Structure' exemplars only should be given.

Further information about the ASEP standards is available on line at: [www.adelaide.edu.au/graduatecentre/policy](http://www.adelaide.edu.au/graduatecentre/policy)

Students should discuss the procedures with their principal supervisor and before editing is commenced provide the editor with a copy of this section of the Specifications for Thesis and details of the ASEP standards. Material for editing or proof-reading should be submitted in hard copy.

## 5 Typing

A thesis, which may be produced on both sides of the paper, should normally be printed on A4 paper in a clear and legible font (eg. Arial Narrow 12 or Times 12).

### Margins

Margins for both text and figures should not be less than 35 mm on the inside edge and 15 mm on the other three sides to allow for binding and trimming. (See also 'Soft-binding of thesis for examination' under 8: Binding, below.)

## 6 Copying

### 6.1 Archival Copy

The archival copy should be marked accordingly and will become the University's copy following the award of the degree. The archival copy should be produced on archival quality (acid-free) paper to ensure its long-term preservation, preferably on 90 or 100gsm paper.

### 6.2 Additional Copies

Additional copies of the thesis should be produced on acid free bond, or similar high-quality paper using a copying method which produces a good-quality copy. Chemically coated paper is acceptable for the production of a thesis only if it is known to provide a high quality reproduction and proven long-term stability

### 6.3 Audio and audio-visual recordings

Audio and audio-visual recordings should be produced on an internationally compatible medium using a copying method which creates a high quality audio and visual reproduction with proven longevity. Students should consult with their supervisors regarding the technical issues involved in the submission of digital media.

## 7 Diagrams and figures

The following are general suggestions for normal practice, but they may be varied in special cases with the approval of the Librarian:

- 7.1 Diagrams and figures, etc. should preferably be drawn or photographed on A4 paper and bound in the appropriate place in the text. If it is necessary to mount photographs, the mounting should be

on paper somewhat heavier than that of the other pages, and great care should be taken to avoid wrinkling the paper or distorting the shape of the volume.

- 7.2 Figures should either be inserted at an appropriate place in the text, or form a separate page. For normal orientation with the top of the figure upwards, the legend should be at the bottom of the figure. If it is necessary to rotate the figure, it should be placed on a separate page with the top of the figure on the left-hand side of the page and the legend on the right-hand side of the page. This applies regardless of whether the figure forms a left-hand or a right-hand page, but if the thesis is produced with the text only on right-hand pages, then figures should also appear only on right-hand pages. If there is insufficient space for the legend, it may be placed on the page facing the figure.
- 7.3 Tables should be inserted in the appropriate place in the text, except that lengthy or bulky tables should appear as an appendix.
- 7.4 Folded diagrams, maps, tables, etc. should read as right-hand pages when open.
- 7.5 Musical notation and similar forms of written notation should be inserted in the appropriate place in the text, except that lengthy examples should appear as an appendix.

## 8 Binding

### 8.1 Soft-binding of thesis for examination

Higher degree students may opt to submit three copies of their thesis in soft bound form initially for examination purposes.

Students who wish to have their theses soft-bound should note that:

- (a) It is not possible to rebind a thesis that has been soft-covered using the currently available methods, such as Thermo-Bind or Wire- Spiral, without having first to trim the left hand margin by 10 to 15 mm. This means that the provision for the left hand margin of the thesis must be at least 45 mm. This may result in an increase in the number of pages of the thesis and the consequent increase in cost of production.
- (b) Most soft-binding processes will handle up to around 30 mm in thickness. Many theses are thicker than this and may have to be bound in more than one volume.
- (c) Students are responsible for all costs incurred in the soft-binding of their thesis as well as in the subsequent hard-binding. Some scholarships provide a thesis allowance and costs may be refunded to students on presentation of relevant receipts.
- (d) When the examination process (including the completion of any required amendments) is complete, students are obliged to submit three hard-bound copies and one digital copy of

their theses (see 9 Australasian Digital Thesis Program) before a degree can be conferred. Any supplementary material submitted with paper copies should be digitised, where possible, and submitted as an attachment to the digital copy.

### 8.2 Hard-binding

- a The three required copies of the thesis must be sewn and bound with cloth on stiff covers. (A sprint-type or screw-type binder is unacceptable. Stapling and plastic or 'perfect' binding without sewing are also unacceptable.)
- b During binding the edges should be trimmed.
- c On the spine of the thesis should be printed, in gold lettering of suitable size, normally reading from the top to the bottom, the title of the thesis, shortened if necessary, followed by the student's surname. Where the width of the spine allows, the lettering may be placed horizontally, with the title of the thesis near the top of the spine and student's surname near the middle.
- d Supplementary material such as folding maps and other large folded sheets and primary data on sheets, and data on CD or DVD, may be placed in a pocket inside the back cover of the bound thesis.
- e In the case of published papers of unusual size it may be desirable to bind them in a separate volume. If they have been bound by a publisher it is desirable to keep them in a special case made and lettered to simulate a bound volume of a thesis.
- f Supplementary material which cannot readily be kept in a pocket should be placed in a special case made and lettered to simulate a bound volume of the thesis.
- g In some cases, it may be desirable to submit audio or audio-visual recordings in a separate volume made to simulate a bound volume of the thesis.
- h A supplementary case or additional volume of a thesis should be distinguished by a volume number but should otherwise be uniform with the first part of the thesis in respect to colour, lettering and, as far as possible, size.

## 9 Australian Digital Theses (ADT) Program

The University of Adelaide is a member of the Australasian Digital Theses Program. This is a national collaborative program which aims to establish a distributed database of digital versions of theses produced by postgraduate research students at Australian Universities.

In addition to the three required printed copies, University of Adelaide postgraduate research students are required to deposit a digital copy of

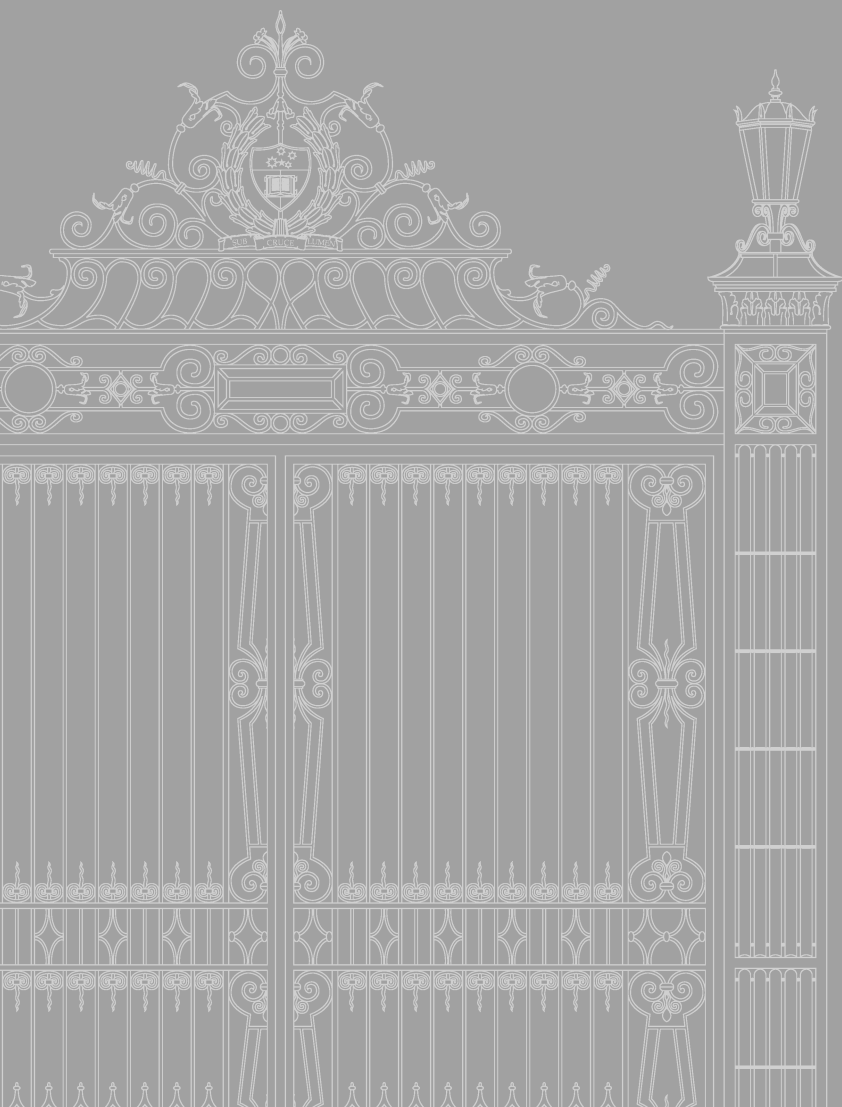
their thesis for inclusion in the national database of Australian theses. Once entered into the database, the thesis will be accessible through the University of Adelaide Library's web pages, the Library's web catalogue, a national database of Australian theses and also through web search engines unless permission has been granted to restrict access for a period of time e.g. where the thesis is under embargo or where commercial publication of the thesis is being sought\*.

The digital thesis copy must be provided on disk or CDROM, together with a completed and signed submission form. It is preferred that the digital version be in PDF format. The digital version must be a direct copy of the thesis which has been approved by the University for the award of the degree.

Students must obtain permission for use of copyrighted material, such as diagrams, illustrations, maps, tables, photographs, musical notation, images and audio-visual recordings that are not the students' own creation, or if written permission cannot be obtained, then such material will need to be identified so Library staff can remove them from the digital copy.

Further assistance and deposit instructions for digital theses are available on the Library's web site at: [www.adelaide.edu.au/library/digital/theses](http://www.adelaide.edu.au/library/digital/theses)

\* Information regarding the process for applying to restrict access to the digital thesis is available from the Adelaide Graduate Centre and on the web at: [www.adelaide.edu.au/graduatecentre/policy](http://www.adelaide.edu.au/graduatecentre/policy)



# Academic Program Rules

# School of Architecture, Landscape Architecture and Urban Design

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## Postgraduate Awards

- Graduate Certificate in Design Studies
- Graduate Certificate in Digital Media Practice
- Graduate Certificate in Design Studies (Landscape)
- Graduate Certificate of Design in Digital Media
- Graduate Diploma in Design Studies

- Graduate Diploma in Design Studies (Landscape)
- Graduate Diploma of Design in Digital Media
- Master of Architecture
- Master of Architecture (Coursework)
- Master of Building Science
- Master of Design Studies
- Master of Design in Digital Media
- Master of Landscape Architecture
- Master of Landscape Architecture by Research
- Master of Planning
- Master of Planning (Urban Design)
- Master of Urban Design

**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 Certificate in Design Studies

## Graduate Certificate in Design Studies (Landscape)

### Graduate Diploma in Design Studies

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

## 1 Duration of programs

Except with the permission of the School of Architecture, Landscape Architecture and Urban Design:

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

*and*

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

## 2 Admission

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

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

- a a degree or Honours degree of the University of Adelaide or an equivalent award from another educational institution accepted by the University for that purpose, subject to the approval of the Head of the School of Architecture, Landscape Architecture and Urban Design
- or*
- b a TAFE degree with at least 2 years relevant work experience, or TAFE (AQF) diploma or advanced diploma with at least 10 years relevant work experience

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

- a the Graduate Certificate in Design Studies of the University of Adelaide or an equivalent

award from another educational institution accepted by the University for the purpose

*or*

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

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

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

*or*

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

- 2.4 The Faculty may in special cases and subject to such conditions (if any) as the Head of the School of Architecture, Landscape Architecture and Urban Design may see fit to impose in each case, accept as a candidate for the Graduate Certificate in Design Studies or Graduate Certificate in Design Studies (Landscape), or Graduate Diploma in Design Studies or Graduate Diploma in Design Studies (Landscape), an applicant who does not hold the qualifications specified in 2.1, 2.2 or 2.3 above but who has given evidence satisfactory to the Head of School of fitness to undertake work for the Graduate Certificate in Design Studies or Graduate Certificate in Design Studies (Landscape) or Graduate Diploma in Design Studies or Graduate Diploma in Design Studies (Landscape).

## 2.5 Status, exemption and credit transfer

- 2.5.1 A candidate who has passed postgraduate level courses in the School of Architecture, Landscape Architecture and Urban Design or in other faculties of the University or in other educational institutions may on written application



to the School Executive Officer be granted such exemption from Academic Program Rule 5.1 as the Head of School may determine.

- 2.5.2 Candidates who have previously completed the requirements of the Graduate Certificate in Design Studies shall receive full status towards the Graduate Diploma in Design Studies for studies undertaken in the Graduate Certificate.
- 2.5.3 Candidates who have previously completed the requirements of the Graduate Certificate in Design Studies (Landscape) shall receive full status towards the Graduate Diploma in Design Studies (Landscape) for studies undertaken in the Graduate Certificate.
- 2.5.4 No candidate may be granted more than 12 units of status towards the Graduate Diploma in Design Studies or the Graduate Diploma in Design Studies (Landscape).

### 2.6 Articulation with other awards

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

### 3 Assessment and examinations

- 3.1 There shall normally be four classifications of pass in the final assessment of any course for the Graduate Certificate and Graduate Diploma awards, as follows: Pass with High Distinction, Pass with Distinction, Pass with Credit, Pass. Results in certain courses as specified in the Academic Program Rules will not be classified.
- 3.2 A candidate shall not be eligible to attend for examination unless the prescribed work has been completed to the satisfaction of the teaching staff concerned.
- 3.3 In determining a candidate's final result in a course (or part of a course) the examiners may take into account oral, written, practical and examination work, provided that the candidate has been given adequate notice at the commencement of the teaching of the course of the way in which work will be taken into account and of its relative importance in the final result.
- 3.4 A candidate who fails a course and who desires to take that course again shall, unless exempted wholly or partially therefrom by the Head of School, again complete the required work in that course to the satisfaction of the teaching staff concerned.

### 3.5 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 Academic program

- 4.1.1 To qualify for the Graduate Certificate in Design Studies a candidate shall pass a combination of the courses listed in Rule 4.1.3 to the value of at least 12 units.
- 4.1.2 To qualify for the Graduate Certificate in Design Studies (Landscape) a candidate shall pass a combination of the courses listed in Rule 4.1.4 to the value of at least 12 units.
- 4.1.3 To qualify for the Graduate Diploma in Design Studies a candidate shall pass the following courses to the value of at least 24 units:
 

DESST 6018 Technology in Design IV.....	6
DESST 6020 Design for Sustainable Community IV .....	6
DESST 6022 Architecture Design Studio IV.....	6
DESST 6024 Architecture Histories and Theories IV.....	3
DESST 6025 Landscape Architecture Histories and Theories IV.....	3
- 4.1.4 To qualify for the Graduate Diploma in Design Studies (Landscape) a candidate shall pass the following courses\* to the value of at least 24 units:
 

DESST 6020 Design for Sustainable Community IV .....	6
DESST 6021 Natural and Landscape Systems IV.....	6
DESST 6023 Landscape Architecture Design Studio IV .....	6
DESST 6024 Architecture Histories and Theories IV.....	3
DESST 6025 Landscape Architecture Histories and Theories IV.....	3

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

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

## 4.2 Unacceptable combination of courses

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

## 4.3 Graduation

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

## 5 Special circumstances

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

### **Transition Arrangements from 2009**

(not forming part of the Academic Program Rules)

- A student who has completed only one of DESST 6009 Design and Environments IV and DESST 6015 Twentieth Century Architecture and Landscapes IV will be required to enrol in DESST 6024 Architecture Histories and Theories and DESST 6025 Landscape Architecture Histories and Theories IV and may be granted appropriate exemption from components of the course already completed.
- A student who failed DESST 6019 Cultures, Histories and Designed Environments will be required to take DESST 6024 Architecture Histories and Theories and DESST 6025 Landscape Architecture Histories and Theories.

## **Graduate Attributes**

Graduate Certificate/Diploma in Design Studies

Graduate Certificate/Diploma in Design Studies (Landscape)

### **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 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.

### **Attitudes and Values**

- A commitment to objectivity, intellectual inquiry and intellectual rigour
- An appreciation of the role of business ethics
- Dedication to the pursuit of new knowledge and continuous learning
- An appreciation of cultural diversity and sensitivity to the operation of business in this context
- An appreciation of social justice through organisations that pursue good governance, meet professional standards and conform to societal norms.



# Graduate Certificate of Design in Digital Media

## 1 Duration of program

To qualify for the Graduate Certificate, a candidate shall satisfactorily complete 12 units of study in one semester of full-time study or the equivalent of part-time study.

## 2 Admission

2.1 Applications for admission shall be directly to the School of Architecture, Landscape Architecture and Urban Design. Successful applicants to the program may not defer their studies to the following year.

An applicant for admission to the program of study for the Graduate Certificate of Design in Digital Media shall have qualified for a degree of Bachelor of the University or for a Bachelor degree of another institution accepted for the purpose by the University.

2.2 The Faculty may, subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the degree a person who does not satisfy the requirements of Rule 2.1 above, but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the Graduate Certificate.

2.3 Applicants for the degree will be required to submit a digital media portfolio, or equivalent evidence of adequate suitability for the program of study.

### 2.4 Status, exemption and credit transfer

2.4.1 A candidate will not be granted status for any course which he or she has completed for another award.

2.4.2 A candidate who fails a course and desires to repeat that course shall, unless exempted partially therefrom by the Head of the School, again complete the required work in the course to the satisfaction of the teaching staff concerned.

### 2.5 Articulation with other awards

2.5.1 A candidate for the Graduate Diploma of Design in Digital Media who satisfies the requirements for the Graduate Certificate but who does not complete the requirements for the Graduate Diploma may be admitted to the Graduate Certificate.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in the courses for the Graduate Certificate: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 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 purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

3.3 A candidate who fails a course and desires to repeat that course shall, unless exempted partially therefrom by the Head of the School, again complete the required work in the course to the satisfaction of the teaching staff concerned.

## 3.4 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 To qualify for the Graduate Certificate, a candidate shall satisfactorily complete a combination of courses to the value of 12 units, as follows:

DESSTDM 7012 Imaging and Design ..... 6

DESSTDM 7013 Modelling and Animation ..... 6

unless the candidate is able to present evidence that, in the opinion of the Faculty, they have done similar courses as above. In such case, the candidate shall satisfactorily complete courses to the value of 12 units, as follows:

ARCHDM 7007 Rules and Contingency in Design with Digital Media..... 6

DESSTDM 7006 Interactivity in Design with Digital Media..... 6

4.2 No candidate will be permitted to count for the Graduate Certificate any course that, in the opinion of the Faculty, contains substantially the same material as any other course which he or she has already presented for another award.

### 4.3 Graduation

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

## 5 Special circumstances

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



# Graduate Certificate in Digital Media Practice

## 1 Duration of program

To qualify for the Graduate Certificate, a candidate shall satisfactorily complete one semester of full-time study.

## 2 Admission

- 2.1 An applicant for admission to the program of study for the Graduate Certificate in Digital Media Practice shall have qualified for the Master of Design Studies in Digital Media of the University.
- 2.2 The Faculty may, subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the Graduate Certificate a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the Graduate Certificate.

## 2.3 Status, exemption and credit transfer

- 2.3.1 A candidate will not be granted status for any course which he or she has completed for another award.
- 2.3.2 A candidate who fails a course and desires to repeat that course shall, unless exempted partially therefrom by the Head of School of Architecture, Landscape Architecture and Urban Design (or nominee) concerned, again complete the required work in the course to the satisfaction of the teaching staff concerned.

## 3 Assessment and examinations

- 3.1 There shall be four classifications of pass in the courses for the Graduate Certificate. Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.
- 3.2
- 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 purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

## 4 Qualification requirements

- 4.1 To qualify for the Graduate Certificate, a candidate shall satisfactorily complete the following course to the value of 12 units:  
ARCHDM 7011 Design Practice with Digital Media

## 4.2 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.

## 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**

### Graduate Certificate in Digital Media Practice

Graduates of the program will have enhanced abilities to be creative and effective within the social and practical context of a professional office or similar institution. The specific understanding and skills developed are:

#### **Understanding**

- Deep understanding of a specialist area of design and/or representation using digital media.
- Understanding of the role and use of digital media within a commercial art and/or design or production office or educational or research organisation.
- Understanding of time management, practice management, advertising and marketing as they relate to digital media production.

#### **Skills**

- Ability to make a sustained and productive contribution to the work of a commercial design or production office or an educational or research institution.

## 1 Duration of program

To qualify for the Graduate Diploma, a candidate shall satisfactorily complete 24 units of study in one year of full-time study or the equivalent of part-time study.

## 2 Admission

2.1 Applications for admission shall be directly to the School of Architecture, Landscape Architecture and Urban Design. Successful applicants to the program may not defer their studies to the following year.

An applicant for admission to the program of study for the Graduate Diploma of Design in Digital Media shall have qualified for:

- a a degree of Bachelor of the University or for a Bachelor degree of another institution accepted for the purpose by the University *or*
- b the Graduate Certificate of Design in Digital Media.

2.2 The Faculty may, subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the degree a person who does not satisfy the requirements of Rule 2.1 above, but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the Graduate Diploma.

2.3 Applicants for the degree will be required to submit a digital media portfolio, or equivalent evidence of adequate suitability for the program of study.

## 2.4 Status, exemption and credit transfer

2.4.1 No candidate will be granted status except candidates who have qualified for the Graduate Certificate of Design in Digital Media or have completed courses in another degree program which in the opinion of the Faculty contain similar contents as courses DESSTDM 7012 Imaging and Design and DESSTDM 7013 Modelling and Animation.

2.4.2 A candidate who fails a course and desires to repeat that course shall, unless exempted partially therefrom by the Head of the School, again complete the required work in the course to the satisfaction of the teaching staff concerned.

## 2.5 Articulation with other awards

2.5.1 A candidate who has been admitted to the Graduate Certificate of Design in Digital Media and who has been granted status toward the Graduate Diploma for courses presented for the Graduate Certificate must surrender the Graduate Certificate before being admitted to the Graduate Diploma.

2.5.2 A candidate for the Graduate Diploma of Design in Digital Media who satisfies the requirements for the Graduate Certificate but who does not complete the requirements for the Graduate Diploma may be admitted to the Graduate Certificate.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in the courses for the Graduate Diploma. Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

- 3.2 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 purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

## 3.3 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 To qualify for the Graduate Diploma, a candidate shall satisfactorily complete courses to the value of 24 units, as follows:

ARCHDM 7007 Rules and Contingency in Design with Digital Media.....	6
DESSTDM 7006 Interactivity in Design with Digital Media.....	6
DESSTDM 7012 Imaging and Design .....	6
DESSTDM 7013 Modelling and Animation .....	6

unless the candidate is able to present evidence that, in the opinion of the Faculty, they have done similar courses as DESSTDM 7012 Imaging and Design and DESSTDM 7013 Modelling and Animation. In such case, the candidate shall satisfactorily complete courses to the value of 24 units, as follows:

DESSTDM 7007 Representation in Design with Digital Media.....	6
DESSTDM 7008 Narrative in Design with Digital Media.....	6

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

#### **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.



## 1 Duration of program

- 1.1 The program of study for the degree shall extend over four semesters of full-time study or the equivalent. Students shall pass courses to the value of at least 48 units. The unit values of the courses are contained in Academic Program Rule 4.1.

## 2 Admission

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

A candidate for admission to the program of study for the Master of Architecture (Coursework) must have obtained or completed the requirements for:

- a the Bachelor or Honours degree of Bachelor of Design Studies of the University of Adelaide subject to successful completion of courses comprising the Architectural Studies major or an equivalent award from another educational institution accepted by the University for the purpose *or*
  - b the Bachelor or Honours degree of Bachelor of Architecture of the University of Adelaide or an equivalent award from another educational institution accepted by the University for the purpose *or*
  - c the Graduate Diploma in Design Studies of the University of Adelaide, or an equivalent award from another educational institution accepted by the University for the purpose.
- 2.2 Subject to the approval of Council the Faculty may, in special cases and subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the degree a person who does not hold the qualifications specified in 2.1 above but who has given evidence satisfactory to the Faculty of fitness to undertake work for the degree.

## 2.3 Status, exemption and credit transfer

- 2.3.1 A candidate who has passed postgraduate level courses in the School of Architecture, Landscape Architecture and Urban Design or in other faculties/schools of the University or in other educational institutions, may on written application to the Head of School be granted such exemption from these Academic Program Rules as the School may determine, save that:
- a no more than 12 units of the program may be undertaken through approved exchange programs *and*

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

## 3 Assessment and examinations

- 3.1 There shall normally be four classifications of pass in the final assessment of any course for the Masters degree, as follows: Pass with High Distinction, Pass with Distinction, Pass with Credit, Pass. If the Pass classification be in two divisions a pass in the higher division may be prescribed in the syllabuses as a prerequisite for admission to further studies in that course or to other courses. Results in certain courses as specified in the relevant Academic Program Rules will not be classified.
- 3.2 A candidate shall not be eligible to attend for examination unless the prescribed work has been completed to the satisfaction of the teaching staff concerned.
- 3.3 In determining a candidate's final result in a course (or part of a course) the examiners may take into account oral, written, practical and examination work, provided that the candidate has been given adequate notice at the commencement of the teaching of the course of the way in which work will be taken into account and of its relative importance in the final result.
- 3.4 A candidate who fails a course or who obtains a lower division pass and who desires to take that course again shall, unless exempted wholly or partially therefrom by the Head of the School of Architecture, Landscape Architecture and Urban Design, satisfactorily complete the required work in that course.

## 3.5 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 Academic program: Master of Architecture (Coursework)

- 4.1.1 To qualify for the degree of Master of Architecture (Coursework) a candidate shall pass the core courses to the value of at least 36 units, and elective courses to the value of 12 units including at least one of ARCH 7015 Architecture Elective

Studio A (M) or ARCH 7018 Architecture Elective Studio B (M):

**Core courses**

ARCH 7016 Architecture Studio (M) ..... 6  
 ARCH 7017 Urban Design Studio (M) ..... 6  
 ARCH 7019 Architecture Processes (M) ..... 6  
 ARCH 7020 Professional Practice (M) ..... 3  
 ARCH 7026A/B Architecture Masters Seminar A/B (M) ..... 6

or

ARCH 7028A Research Thesis A (M) ..... 3  
 ARCH 7027 Design and Contemporary Theories in Architecture (M) ..... 3

or

ARCH 7028B Research Thesis B (M) ..... 3  
 ARCH 7029 Architecture Project (M) ..... 6

**Elective courses**

ARCH 7015 Architecture Elective Studio A (M) ... 6  
 ARCH 7018 Architecture Elective Studio B (M) ... 6  
 LARCH 7016 Landscape Architecture Elective Studio A (M) ..... 6  
 LARCH 7018 Landscape Architecture Elective Studio B (M) ..... 6

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

**4.2 Combined programs: Architecture with Landscape Architecture**

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

**4.2.1 Direct entry**

- i Students selected on academic merit and within the double-degree program quota may enrol directly in a program of study leading, after three years of full-time study (or the part time equivalent thereof) to the award of both the degree of Master of Architecture (Coursework) and degree of Master of Landscape Architecture in the School of Architecture, Landscape Architecture and Urban Design.
- ii Students selected for the double degree of Master of Architecture with Master of Landscape Architecture must fulfil the separate requirements for entry to the Master of Architecture and to the Master of Landscape Architecture.
- iii Students enrolled in the double-degree program are required to complete satisfactorily the following courses:

**Year 1**

ARCH 7016 Architecture Studio (M) ..... 6  
 ARCH 7017 Urban Design Studio (M) ..... 6

either

ARCH 7018 Architecture Elective Studio B (M)\* ..... 6

or

LARCH 7018 Landscape Architecture Elective Studio B (M)\* ..... 6  
 LARCH 7017 Landscape Architecture Studio (M) ..... 6

**Option A**

**Year 2**

ARCH 7019 Architecture Processes (M) ..... 6  
 ARCH 7020 Professional Practice (M) ..... 3  
 ARCH 7026A/B Architecture Masters Seminar A/B (M) ..... 6

or

ARCH 7028A Research Thesis A (M) ..... 3  
 ARCH 7027 Design and Contemporary Theories in Architecture (M) ..... 3

or

ARCH 7028B Research Thesis B (M) ..... 3  
 ARCH 7029 Architecture Project (M) ..... 6

**Year 3**

Either

ARCH 7015 Architecture Elective Studio A (M)\* ..... 6

or

LARCH 7016 Landscape Architecture Elective Studio A (M)\* ..... 6

LARCH 7024B Landscape Architecture Masters Seminar B (M) ..... 3

LARCH 7025 Design and Contemporary Theories in Landscape Architecture (M) ..... 3

LARCH 7027 Landscape Architecture Project (M) ..... 6

PLANNING 7031 Planning & Landscape Ecology ..... 6

\* M.Arch./M.L.Arch. double-degree students must complete either ARCH 7018 Architecture Elective Studio B (M) and LARCH 7016 Landscape Architecture Elective Studio A (M), or LARCH 7018 Landscape Architecture Elective Studio B (M) and ARCH 7015 Architecture Elective Studio A (M).

**Option B**

**Year 2**

ARCH 7020 Professional Practice (M) ..... 3

LARCH 7024A/B Landscape Architecture Seminar A/B (M) ..... 6

or

ARCH 7028A Research Thesis A (M) ..... 3

LARCH 7025 Design and Contemporary Theories in Landscape Architecture (M).....	3
<i>or</i>	
ARCH 7028B Research Thesis B (M).....	3
PLANNING 7031 Planning & Landscape Ecology.....	6
Year 3	
<i>either</i>	
ARCH 7015 Architecture Elective Studio A (M)*.....	6
<i>or</i>	
LARCH 7016 Landscape Architecture Elective Studio A (M)*.....	6
ARCH 7019 Architecture Processes (M).....	6
ARCH 7026B Architecture Masters Seminar B (M).....	3
ARCH 7027 Design and Contemporary Theories in Architecture (M).....	3
ARCH 7029 Architecture Project (M).....	6

\* M.Arch./M.L.Arch. double-degree students must complete either ARCH 7018 Architecture Elective Studio B (M) and LARCH 7016 Landscape Architecture Elective Studio A (M); or LARCH 7018 Landscape Architecture Elective Studio B (M) and ARCH 7015 Architecture Elective Studio A (M).

- iv A candidate may not enrol in Level II courses unless he or she has passed at least 18 units of core courses at Level I.
  - v A candidate must complete all courses in Years 1 and 2 of their study plan before proceeding to courses in Year 3.
  - vi A candidate who completes all course in Year 1 as well as Year 2 of Option A will be eligible for the award of the Degree of Master of Architecture (Coursework).
  - vii A candidate who completes all courses in Year 1 as well as Year 2 of Option B will be eligible for the award of the Degree of Master of Landscape Architecture.
  - viii A candidate who completes all courses in Year 1 as well as Years 2 and 3 of either Option A or Option B will be eligible for the award of the Degree of Master of Architecture (Coursework) and Master of Landscape Architecture.
- 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 as another course; 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 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.

### Transition arrangements (not forming part of Academic Program Rules)

Students who completed the requirements of the combined programs of Bachelor of Architectural Studies/Bachelor of Architecture or Bachelor of Architectural Studies/Honours degree of Bachelor of Architecture or Bachelor of Design Studies/Bachelor of Architecture or Bachelor of Design Studies/Honours degree of Bachelor of Architecture (or equivalent) at the University of Adelaide between 1985 and 2007 will be required to pass the additional courses ARCH 7026A/B Architecture Masters Seminar A/B in order to qualify for the award of the Master of Architecture (by coursework). Such students will be required to surrender the Bachelor of Architecture or Honours degree of Bachelor of Architecture before award of the Masters.

## **Graduate Attributes**

### Master of Architecture (Coursework)

#### **Knowledge**

- Advanced acquired knowledge and skills for exploration of creative process and ideas
- Advanced acquired knowledge and skills sufficient for various stages of activities in an architectural practice
- Highly developed intellectual and creative approaches, and adaptability for continued learning and development throughout professional life.

#### **Intellectual and Social Capabilities**

- Designing:

The practice of architectural design, emphasising the pervasion of design from planning to documenting and the interrelationship of aesthetic, economic, environmental, legal, societal and individual reactions, and technical factors, and the nature of design as a group activity.

- Surveying:

The principles of building measurement, documentation and land surveying.

- Communicating:

The communication and documentation of designs for presentation to clients, and other stakeholders, and for construction

The preparation of professional reports.

- Managing:

The management and operation of an architectural practice.

#### **Attitudes and Values**

- The profession of architecture:

Ethics; environmental sustainability; cultural, social, economic and legal responsibilities of the profession of architecture.

- Architectural services:

The understanding of situations where an architect can contribute, the formulation of appropriate strategies, and appropriate pre-design, design, documentation, project management and post construction services;

Processes in developing designs, including the development of a brief, and the outline, assessment and detailed design of proposals in conformity with codes and other requirements;

The organisation, management and documentation associated with building construction and the administration of building contracts;

The marketing of architectural services.

- The technology of architecture:

Building planning, construction, structure and services as they relate to new buildings and alterations to existing buildings.

- The architect in relation to other professions, organisations and the building industry:

The relationship of architects to builders, structural and building services engineers, landscape architects, interior designers, urban designers, planners, and others involved in the creation of the built environment;

The relationship of the profession of architecture to statutory authorities and to the building industry.

- Architecture and Landscape Architecture

The demonstration of the synergies between architecture and landscape architecture, urban design and master planning.



# Master of Architecture

## Master of Building Science

## Master of Landscape Architecture

### 1 General

- 1.1 This document must be read in conjunction with:
- the General Academic Program Rules for Master by Research Programs (see under Adelaide Graduate Centre, p.18) *and*
  - the Research Student Handbook, published by the Adelaide Graduate Centre.

These documents explain procedures to be followed and contain guidelines on supervision and research for the degree of Doctor of Philosophy and the various Masters Degrees by Research, offered by the University.

All students must comply with both the General Academic Rules and the rules following below, and procedures outlined in the Research Student Handbook.

In addition to the General Academic Program Rules for Masters by Research degrees, in this publication, the following discipline specific rules apply.

### 2 Admission

#### 2.1 Master of Architecture

The Research Education and Development Committee may accept as a candidate for the degree of Master of Architecture any person who:

- has qualified for the Honours degree of Bachelor of Architecture of the University of Adelaide  
*or*
- has obtained in another university or tertiary institution qualifications which are deemed at least equivalent to those of the Honours degree of Bachelor of Architecture  
*or*
- has qualified for a degree, whose academic qualifications are accepted by the Committee as sufficient.

#### 2.2 Master of Building Science

The Research Education and Development Committee may accept as a candidate for the degree of Master of Building Science any person who:

- has qualified for the Honours degree of Bachelor of Architectural Studies or the Honours degree of Bachelor of Architecture of the University of Adelaide

*or*

- has obtained in another university or tertiary institution qualifications which are deemed at least equivalent to those of the Honours degree of Bachelor of Architectural Studies  
*or*
- has qualified for a degree, whose academic qualifications are accepted by the Committee as sufficient.

#### 2.3 Master of Landscape Architecture by Research

The Research Education and Development Committee may accept as a candidate for the degree of Master of Landscape Architecture by Research any person who:

- has qualified for the Honours degree of Bachelor of Landscape Architecture of the University of Adelaide  
*or*
- has obtained in another university or tertiary institution qualifications which are deemed at least equivalent to those of the Honours degree of Bachelor of Landscape Architecture  
*or*
- has qualified for a degree, whose academic qualifications are accepted by the Faculty as sufficient.



## 1 Duration of program

To qualify for the Masters degree, a candidate shall satisfactorily complete four semesters of full-time study or the equivalent of part-time study.

## 2 Admission

2.1 An applicant for admission to the academic program for the degree of Master of Design in Digital Media shall have qualified for a Bachelor degree of the University, or a Bachelor degree of another institution accepted for the purpose by the University.

2.2 The Faculty may, subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the degree a person who does not satisfy the requirements of Rule 2.1 above, but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the degree.

2.3 Applicants for the degree will be required to submit a digital media portfolio, or equivalent evidence of adequate suitability for the program of study.

### 2.4 Status, exemption and credit transfer

2.4.1 No candidate shall be granted status for courses with a total value of more than 12 units on account of courses presented for any other award except with permission of the Executive Dean of the Faculty.

2.4.2 A candidate who has completed the Graduate Diploma in Design in Digital Media at the University of Adelaide may be granted full credit for the total units completed. A candidate who has been admitted to the Graduate Diploma in Design in Digital Media and who has been granted credit toward the Masters degree for courses presented for the Graduate Diploma must surrender the Graduate Diploma before being admitted to the Masters degree.

2.4.3 A candidate for the Master of Design in Digital Media who satisfies the requirements for the Graduate Diploma but who does not complete the requirements for the Masters degree may be admitted to the Graduate Diploma.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in the courses for the Masters degree. Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 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 purpose of this Rule, a candidate who is refused permission to sit for examination

shall be deemed to have failed the examination.

3.3 A candidate who fails a course and desires to repeat that course shall, unless exempted partially therefrom by the Head of the School, again complete the required work in the course to the satisfaction of the teaching staff concerned.

## 3.4 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 To qualify for the degree, a candidate shall satisfactorily complete courses to the value of 48 units, as follows:

ARCHDM 7007 Rules and Contingency in Design with Digital Media .....	6
ARCHDM 7012 Imaging and Design.....	6
ARCHDM 7013 Modelling and Animation .....	6
DESSTDM 7006 Interactivity in Design with Digital Media.....	6
DESSTDM 7007 Representation in Design with Digital Media.....	6
DESSTDM 7008 Narrative in Design with Digital Media.....	6
DESSTDM 7004 Design with Digital Media Masters Project.....	12

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

### 4.3 Graduation

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

## 5 Special circumstances

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

## **Graduate Attributes**

Graduate Certificate of Design in Digital Media

Graduate Diploma of Design in Digital Media

Master of Design in Digital Media

### **Knowledge**

- Acquired knowledge of design using computing, modelling, animation and associated industry awareness of digital media.

### **Intellectual and Social Capabilities**

- Preparation of life-long learning towards personal development and professional practice.
- Effective problem solving skills applying logical, critical and creative thinking
- Ability to work autonomously as well as collaboratively with peak industry partners and digital media associations
- Effective written and verbal communication with individuals, mass audiences, small groups and target groups
- Ability to demonstrate international perspectives in design and research.

### **Attitudes and Values**

- Committed to ethical action and social responsibility regarding intellectual property ownership and copyright law awareness.



# Master of Landscape Architecture

## 1 Duration of program

- 1.1 The program of study for the degree shall extend over four semesters of full-time study or the equivalent. Students shall pass courses to the value of at least 48 units. The unit values of the courses are contained in Academic Program Rule 4.2.

## 2 Admission

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

A candidate for admission to the program of study for the Master of Landscape Architecture must have obtained or completed the requirements for:

- a the Bachelor or Honours degree of Bachelor of Design Studies of the University of Adelaide subject to successful completion of courses comprising the Landscape Studies major  
*or*
  - b the Bachelor or Honours degree of Bachelor of Landscape Architecture of the University of Adelaide or an equivalent award from another educational institution accepted by the University for the purpose  
*or*
  - c a degree in Landscape Architecture from another educational institution accepted by the University for the purpose  
*or*
  - d the Graduate Diploma in Design Studies (Landscape) of the University of Adelaide, or an equivalent award from another educational institution accepted by the University for the purpose.
- 2.2 Subject to the approval of Council the Faculty may, in special cases and subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the degree a person who does not hold the qualifications specified in 2.1 above but who has given evidence satisfactory to the Faculty of fitness to undertake work for the degree.
- ### 2.3 Status, exemption and credit transfer
- 2.3.1 A candidate who has passed postgraduate level courses in the School of Architecture, Landscape Architecture and Urban Design or in other faculties/schools of the University, or in other educational institutions, may on written application to the Head of School be granted such exemption

from these Academic Program Rules as the School may determine, save that:

- a no more than 12 units of the program may be undertaken through approved exchange programs *and*
- b a candidate shall always be required to satisfy the examiners in all courses of the final year of the program.

## 3 Assessment and examinations

- 3.1 There shall normally be four classifications of pass in the final assessment of any course for the Masters degree, as follows: Pass with High Distinction, Pass with Distinction, Pass with Credit, Pass. If the Pass classification be in two divisions a pass in the higher division may be prescribed in the syllabuses as a prerequisite for admission to further studies in that course or to other courses. Results in certain courses as specified in the relevant Academic Program Rules will not be classified.
- 3.2 A candidate shall not be eligible to attend for examination unless the prescribed work has been completed to the satisfaction of the teaching staff concerned.
- 3.3 In determining a candidate's final result in a course (or part of a course) the examiners may take into account oral, written, practical and examination work, provided that the candidate has been given adequate notice at the commencement of the teaching of the course of the way in which work will be taken into account and of its relative importance in the final result.
- 3.4 A candidate who fails a course or who obtains a lower division pass and who desires to take that course again shall, unless exempted wholly or partially therefrom by the Head of the School of Architecture, Landscape Architecture and Urban Design complete satisfactorily the required work in that course.
- ### 3.5 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 Academic program: Master of Landscape Architecture

To qualify for the degree of Master of Landscape Architecture a candidate shall pass the core courses to the value of at least 36 units and elective courses to the value of at least 12 units including at least one of LARCH 7016 Landscape Architecture Elective Studio A (M) or LARCH 7018 Landscape Architecture Elective Studio B (M):

#### Core courses

ARCH 7017 Urban Design Studio (M).....	6
ARCH 7020 Professional Practice (M).....	3
LARCH 7017 Landscape Architecture Studio (M).....	6
LARCH 7024A/B Landscape Architecture Masters Seminar A/B (M).....	6

*or*

ARCH 7028A Research Thesis A (M).....	3
LARCH 7025 Design and Contemporary Theories in Landscape Architecture (M).....	3

*or*

ARCH 7028B Research Thesis B (M).....	3
LARCH 7027 Landscape Architecture Project (M).....	6
PLANNING 7031 Planning & Landscape Ecology.....	6

#### Elective courses

ARCH 7015 Architecture Elective Studio A (M)....	6
ARCH 7018 Architecture Elective Studio B (M)....	6
GEST 5003 Environmental Impact Assessment ...	6
GEST 5004 Environmental Economics and Policy .....	6
GEST 5005 Community Engagement .....	6
GEST 5006 People and Environment in the Asia-Pacific Region .....	6
LARCH 7016 Landscape Architecture Elective Studio A (M).....	6
LARCH 7018 Landscape Architecture Elective Studio B (M).....	6

- 4.1.1 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.

### 4.2 Combined programs: Landscape Architecture and Architecture

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

#### 4.2.1 Direct entry

- i Students selected on academic merit and within the double-degree program quota may enrol directly in a program of study leading, after three years of full-time study (or the part time equivalent thereof) to the award of both the degree of Master of Architecture (Coursework) and degree of Master of Landscape Architecture in the School of Architecture, Landscape Architecture and Urban Design.
- ii Students selected for the double degree of Master of Architecture with Master of Landscape Architecture must fulfil the separate requirements for entry to the Master of Architecture and to the Master of Landscape Architecture.
- iii Students enrolled in the double-degree program are required to complete satisfactorily the following courses:
  - Year 1
    - ARCH 7016 Architecture Studio (M).....
    - ARCH 7017 Urban Design Studio (M).....
  - either*
    - ARCH 7018 Architecture Elective Studio B (M)\*.....
  - or*
    - LARCH 7018 Landscape Architecture Elective Studio B (M)\*.....
    - LARCH 7017 Landscape Architecture Studio (M).....
- Option A**
  - Year 2
    - ARCH 7019 Architecture Processes (M).....
    - ARCH 7020 Professional Practice (M).....
    - ARCH 7026A/B Architecture Masters Seminar A/B (M).....
  - or*
    - ARCH 7028A Research Thesis A (M).....
    - ARCH 7027 Design and Contemporary Theories in Architecture (M).....
  - or*
    - ARCH 7028B Research Thesis B (M).....
    - ARCH 7029 Architecture Project (M).....
  - Year 3
    - either*
      - ARCH 7015 Architecture Elective Studio A (M)\*.....
    - or*
      - LARCH 7016 Landscape Architecture Elective Studio A (M)\*.....
      - LARCH 7024B Landscape Architecture Masters Seminar B (M).....

LARCH 7025 Design and Contemporary Theories in Landscape Architecture (M).....	3
LARCH 7027 Landscape Architecture Project (M) .....	6
PLANNING 7031 Planning & Landscape Ecology. ....	6

\* M.Arch./M.L.Arch. double-degree students must complete either Architecture Elective Studio B (M) and Landscape Architecture Elective Studio A (M), or Landscape Architecture Elective Studio B (M) and Architecture Elective Studio A (M).

#### Option B

Year 2	
ARCH 7020 Professional Practice (M).....	3
LARCH 7024A/B Landscape Architecture Seminar A/B (M) .....	6
<i>or</i>	

ARCH 7028A Research Thesis A (M).....	3
LARCH 7025 Design and Contemporary Theories in Landscape Architecture (M).....	3
<i>or</i>	

ARCH 7028B Research Thesis B (M).....	3
PLANNING 7031 Planning & Landscape Ecology. ....	6

#### Year 3

##### Either

ARCH 7015 Architecture Elective Studio A (M)*.....	6
<i>or</i>	

LARCH 7016 Landscape Architecture Elective Studio A (M)*.....	6
ARCH 7019 Architecture Processes (M).....	6
ARCH 7026B Architecture Masters Seminar B (M).....	3
ARCH 7027 Design and Contemporary Theories in Architecture (M).....	3
ARCH 7029 Architecture Project (M) .....	6

\*M.Arch./M.L.Arch. double-degree students must complete either Architecture Elective Studio B (M) and Landscape Architecture Elective Studio A (M); or Landscape Architecture Elective Studio B (M) and Architecture Elective Studio A (M).

- iv A candidate may not enrol in Level II courses unless he or she has passed at least 18 units of core courses at Level I.
- v A candidate must complete all courses in Years 1 and 2 of their study plan before proceeding to courses in Year 3.
- vi A candidate who completes all course in Year 1 as well as Year 2 of Option A will be eligible for the award of the Degree of Master of Architecture (Coursework).
- vii A candidate who completes all courses in Year 1 as well as Year 2 of Option B will be eligible

for the award of the Degree of Master of Landscape Architecture.

- viii A candidate who completes all courses in Year 1 as well as Years 2 and 3 of either Option A or Option B will be eligible for the award of the Degree of Master of Architecture (Coursework) and Master of Landscape Architecture.

### 4.3 Combined programs: Landscape Architecture and Planning (Urban Design)

It is possible for students to enhance their landscape architecture qualification by combining their studies with courses from the Master of Planning (Urban Design).

#### 4.3.1 Direct entry

- i Students selected on academic merit and within the double-degree program quota may enrol directly in a program of study leading, after three years of full-time study (or the part time equivalent thereof) to the award of both the degree of Master of Planning (Urban Design) and degree of Master of Landscape Architecture in the School of Architecture, Landscape Architecture and Urban Design.
- ii Students selected for the double degree of Master of Planning (Urban Design) with Master of Landscape Architecture must fulfil the separate requirements for entry to the Master of Planning (Urban Design) and to the Master of Landscape Architecture.

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

#### Year 1

ARCH 7017 Urban Design Studio (M) .....	6
GEST 5005 Community Engagement .....	6
LARCH 7017 Landscape Architecture Studio (M) .....	6
PLANNING 7026 State of the City .....	3
PLANNING 7027 Urban Design Principles.....	3

#### Option A

##### Year 2

ARCH 7020 Professional Practice (M) .....	3
LARCH 7024A/B Landscape Architecture Masters Seminar A/B (M).....	6
<i>or</i>	

ARCH 7028A Research Thesis A (M).....	3
LARCH 7025 Design and Contemporary Theories in Landscape Architecture (M).....	3
<i>or</i>	

ARCH 7028B Research Thesis B (M).....	3
LARCH 7027 Landscape Architecture Project (M) .....	6
PLANNING 7031 Planning & Landscape Ecology.....	6

Year 3	
GEST 5002 Environmental Planning & Governance.....	6
LARCH 7016 Landscape Architecture Elective Studio A (M).....	6
PLANNING 7029 Planning Professional Practice 6	
PLANNING 7030 Urban Design Project .....	6

### Option B

Year 2	
GEST 5002 Environmental Planning & Governance .....	6
LARCH 7016 Landscape Architecture Elective Studio A (M).....	6
PLANNING 7029 Planning Professional Practice 6	
PLANNING 7030 Urban Design Project .....	6

### Year 3

ARCH 7020 Professional Practice (M) .....	3
LARCH 7024A/B Landscape Architecture Masters Seminar A/B (M).....	6

*or*

ARCH 7028A Research Thesis A (M).....	3
LARCH 7025 Design and Contemporary Theories in Landscape Architecture (M).....	3

*or*

ARCH 7028B Research Thesis B (M).....	3
PLANNING 7031 Planning & Landscape Ecology .....	6

- iv A candidate may not enrol in Level II courses unless he or she has passed at least 18 units of core courses at Level I.
- v A candidate must complete all courses in Years 1 and 2 of their study plan before proceeding to courses in Year 3.

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.

## 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 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.

### Transition arrangements (not forming part of Academic Program Rules)

Students who completed the requirements of the combined program Bachelor of Design Studies/Bachelor of Landscape Architecture or Bachelor of Design Studies/Honours degree of Bachelor of Landscape Architecture (or equivalent) at the University of Adelaide between 1998 and 2007 will be required to pass the additional courses LARCH 7024A/B Landscape Architecture Masters Seminar A/B in order to qualify for the award of the Master of Landscape Architecture. Such students will be required to surrender the Bachelor of Landscape Architecture or Honours degree of Bachelor of Landscape Architecture before award of the Masters.

## Graduate Attributes

### Master of Landscape Architecture (Coursework)

#### Knowledge

- Advanced acquired knowledge and skills for exploration of creative process and ideas
- Advanced acquired knowledge and skills sufficient for various stages of activities in a landscape architectural practice
- Highly developed intellectual and creative approaches, and adaptability for continued learning and development throughout professional life.

#### Intellectual and Social Capabilities

- Designing:

The practice of landscape architectural design, emphasising the pervasion of design from planning to detailing and the interrelationship of aesthetic, economic, environmental, legal, societal and individual reactions, and technical factors, and the nature of design as a group activity.

- Site Planning:

Understanding and taking advantage of variables relevant to site planning including flora, fauna, soils, water systems, energy systems, building materials, human activities and desires, heritage conservation and the poetics of space, site and structure assembly and arrangement.

- Surveying:

The principles of land surveying.

- Communication:

The communication and documentation of designs as a part of the individual and group processes and for clients, construction, public presentation and statutory authorities.

The preparation of professional reports.

- Managing:

The management and operation of a landscape architectural practice and the activities of a landscape architectural practice.

#### Attitudes and Values

- The profession of landscape architecture:

Ethics: environmental sustainability; cultural, social, economic and legal responsibilities of the profession of landscape architecture.

- Landscape architectural services:

The understanding of situations where a landscape architect can contribute, the formulation of appropriate strategies, and appropriate pre-design, design, project management and post construction services

Processes in developing designs, including the development of a brief, and the outline, assessment, detailed design and costing of proposals in conformity with codes and other requirements

The organisation, management and documentation associated with construction and the administration of contracts

The marketing of landscape architectural services.

## Master of Landscape Architecture (Coursework) - cont'd

- The technology of landscape architecture:

Site planning, construction, vegetation and habitat provision, water systems and hydrology, structures and services as they relate to new buildings, alterations, and site planning and design interventions.

- The landscape architect in relation to other professions, organisations and the building industry:

The relationship of landscape architects to builders, structural and building services engineers, architects, interior designers, urban designers, planners, and others included in the creation of the built environment and human-dominated and shaped landscapes.

The relationship of the profession of landscape architecture to statutory authorities and to the design industry.

- Landscape Architecture and Architecture:

The demonstration of the synergies between landscape architecture and architecture, urban design and master planning.



# Master of Planning

## Master of Planning (Urban Design)

### 1 Duration of program

- 1.1 The program of study for the degree shall extend over four semesters of full-time study or the equivalent. Students shall pass courses to the value of at least 48 units.

### 2 Admission

- 2.1 A candidate for admission to the program of study for the Master of Planning or Master of Planning (Urban Design) shall have qualified for a degree of the University of Adelaide, or a degree of another institution accepted by the Faculty for the purpose as equivalent.
- 2.2 Subject to the approval of Council the Faculty may, in special cases and subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the degree a person who does not hold the qualifications specified in 2.1 above but who has given evidence satisfactory to the Faculty of fitness to undertake work for the degree.

### 2.3 Status, exemption and credit transfer

- 2.3.1 No candidate shall be granted credit for courses with a total value of more than 12 units on account of courses presented for any other award except with permission of the Executive Dean of the Faculty.

### 3 Assessment and examinations

- 3.1 There shall be four classifications of pass in any course for the Masters degree: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.
- 3.2 A candidate shall not be eligible to attend for examination unless the prescribed work has been completed to the satisfaction of the teaching staff concerned.
- 3.3 In determining a candidate's final result in a course (or part of a course) the examiners may take into account oral, written, practical and examination work, provided that the candidate has been given adequate notice at the commencement of the teaching of the course of the way in which work will be taken into account and of its relative importance in the final result.
- 3.4 A candidate who fails a course and who desires to take that course again shall, unless exempted wholly or partially therefrom by the Head of the School of Architecture, Landscape Architecture and Urban Design, satisfactorily complete the required work in that course.

### 3.5 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 Master of Planning

To qualify for the degree of Master of Planning a candidate shall satisfactorily complete courses to the value of 48 units, as follows:

#### 4.1.1 Core courses

GEST 5002 Environmental Planning & Governance.....	6
GEST 5005 Community Engagement .....	6
GEST 5010 Research Methods .....	3
PLANNING 7026 State of the City.....	3
PLANNING 7027 Urban Design Principles .....	3
PLANNING 7028 Design Communications .....	3
PLANNING 7029 Planning Professional Practice .....	6
PLANNING 7031 Planning & Landscape Ecology .....	6

#### 4.1.2 Dissertation

GEST 5505 Planning Dissertation .....	6
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#### 4.1.3 Electives

6 units of elective courses chosen from:

GEST 5003 Environmental Impact Assessment ...	6
GEST 5004 Environmental Economics and Policy.....	6
GEST 5006 People and Environment in the Asia-Pacific Region .....	6

### 4.2 Master of Planning (Urban Design)

To qualify for the degree of Master of Planning (Urban Design), a candidate must successfully complete all core courses listed in 4.1.1. In addition, the courses presented must include:

4.2.1 ARCH 7017 Urban Design Studio (M).....	6
PLANNING 7030 Urban Design Project .....	6

- 4.3 No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty concerned, contains a substantial amount of the same material.

#### **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**

Master of Planning

Master of Planning (Urban Design)

Graduate attributes are dictated by the University's Graduate Attributes overlaid by the specific Graduate Attributes specified by the Planning Institute of Australia (PIA) for the programs to be accredited. These are:

### **Knowledge**

- The purpose and methods of planning (the traditions, current philosophies, principles, practice, and the emergent issues)
- The natural and cultural environment, principles of ecologically sustainable development, methods of evaluating
- The political, legal and institutional contexts of planning including the influence of native title on land tenure
- Relevant social, economic and environmental principles
- Indigenous Australian cultures, including relationships between their physical environment and associated social and economic systems.

### **Skills in**

- Problem definition and objectives formulation for development and conservation
- Understanding policy formulation, evaluation and implementation
- Plan making and the use of planning instruments
- Understanding urban design principles
- Understanding strategic dimensions and their implications
- Strategic planning related to economic climate, social change and environmental sustainability
- Development control and its relation with its environment and with strategic plans
- Mediation and conflict resolution
- Research methods including quantitative and qualitative analysis
- Verbal written and graphic communication
- The use of information technology
- Knowledge synthesis and application in planning practice
- Understanding and responding to cultural diversity and difference.

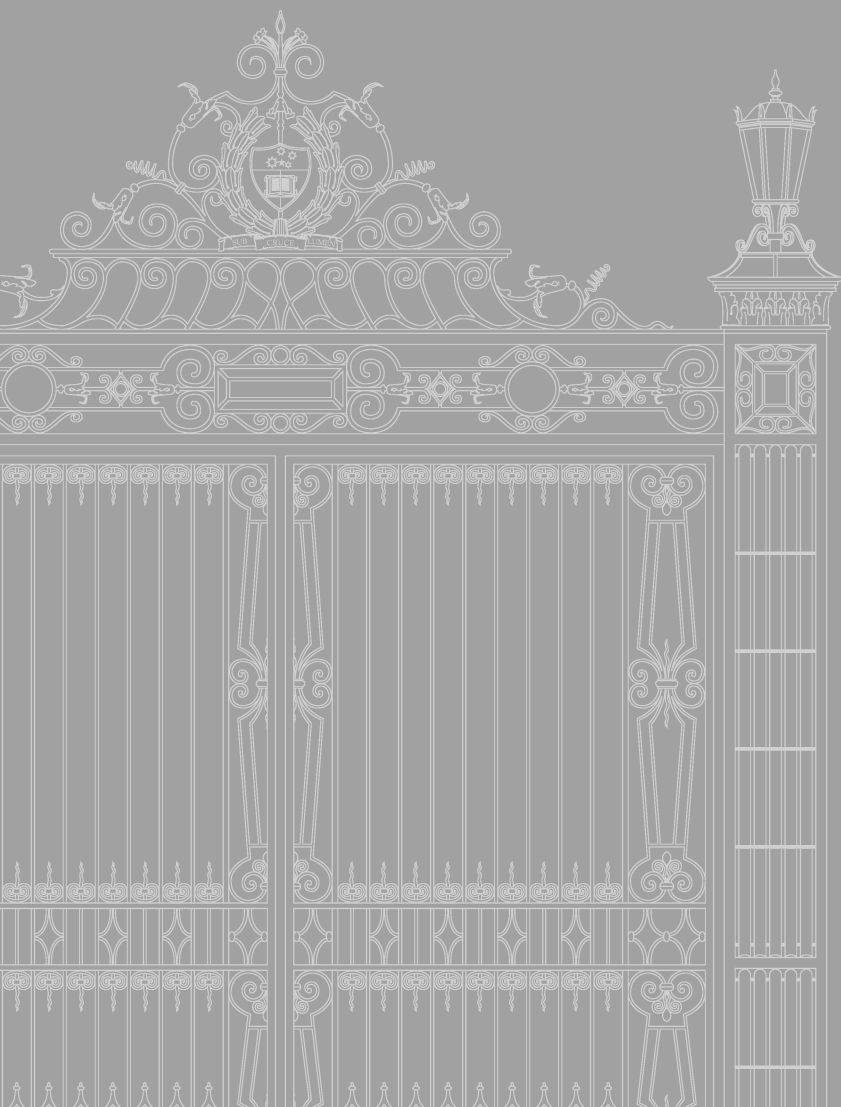
### **Adoption of professional ethics**

- Integrate value issues in practice, ranging from professional practice ethics of considerations for future generations, to respect for diversity and the importance of social equity
- Access critically the use of professional knowledge, skills and communication.

### **Additional Attributes for the Master of Planning (Urban Design)**

- Strong linking of planning and urban design.





# Academic Program Rules

## School of Business

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### Postgraduate Awards

- Professional Certificate in Self Managed Superannuation
- Graduate Certificate in Commerce
- Graduate Certificate in Management
- Graduate Diploma of Business Administration
- Graduate Diploma in Global Wealth Management

- Graduate Diploma in Wealth Management
- Master of Accounting
- Master of Accounting and Finance
- Master of Accounting and Marketing
- Master of Accounting and Performance
- Master of Applied Finance
- Master of Business Administration
- Master of Business Administration (Advanced)
- Doctor of Business Administration
- Master of Commerce
- Master of Commerce (Coursework)
- Master of Commerce (Accounting)
- Master of Commerce (Applied Finance)
- Master of Commerce (Marketing)
- Master of Commerce (Performance Management)

**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.



# Professional Certificate in Self-Managed Superannuation

## 1 Duration of program

To qualify for the Professional Certificate, a candidate shall satisfactorily complete a program of study comprising two course modules. The maximum time permitted for completion of the program is two years.

## 2 Admission

2.1 An applicant for admission to the academic program for the Professional Certificate in Self-Managed Superannuation shall have qualified for a degree of the University of Adelaide, or a degree of another institution accepted by the Faculty for the purpose as equivalent.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the Professional Certificate a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of extensive relevant industry experience.

### 2.3 Status, exemption and credit transfer

2.3.1 No candidate shall be granted status for any course.

2.3.2 One course from the Professional Certificate in Self-Managed Superannuation may count as an elective towards the Graduate Diploma in Global Wealth Management or Master of Commerce programs.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Professional Certificate: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 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 purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

3.3 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially therefrom by the program coordinator or nominee, again complete the required work in the course to the satisfaction of the teaching staff concerned.

3.4 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4. Qualification requirements

4.1 To qualify for the Professional Certificate in Self Managed Superannuation a candidate shall satisfactorily complete courses to the value of 6 units:

CORPFIN 6001 Self Managed Super:  
Distribution & Estate Planning..... 3

CORPFIN 6002 Self Managed Super:  
Establishment Accumulation..... 3

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

### 4.3 Graduation

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

## 5 Special circumstances

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

## Graduate Attributes

### Professional Certificate in Self Managed Superannuation Funds

- An appreciation of the principles and tools necessary to pursue further studies in the field of financial planning
- An in-depth understanding of the methods and techniques applied in the financial planning and related professions
- An understanding of the underlying theories and concepts that inform alternative perspectives adopted in approaching issues and problems in wealth management
- An understanding of the features of professional and regulatory frameworks and institutions relevant to the financial planning industry
- High level critical thinking and problem solving skills
- Ability to evaluate and synthesise information and existing knowledge from a number of sources and experiences
- Ability to appreciate the changing knowledge base of the financial planning and related professions, and to respond to the demand for change
- Capacity to engage with current issues of significance in commerce and government
- Ability to integrate accounting, finance, marketing and management skills so as to find progressive solutions for challenges of today's businesses and societies
- Capacity to apply financial theory to respond to demands of the respective practice
- Ability to recognise the limits of the professional discipline and a capacity to identify, develop and apply alternative methods to coincide diverging interests
- Capacity to design and construct a logically compelling report
- Capacity to participate in teamwork
- High level oral communication skills
- High level written communication skills
- The capacity to engage in life-long learning
- A commitment to high levels of academic scholarship
- A commitment to business ethics and an appreciation of social justice through organisations that pursue good governance and conform to legal and professional standards and societies norms
- An appreciation of cultural diversity and sensitivity to the operation of commerce in this context



# Graduate Certificate in Commerce

## 1 Duration of Program

To qualify for the award, a candidate shall satisfactorily complete a program of study comprising of one semester of full-time study or equivalent part-time study. The maximum time permitted for completion of the program is three years.

## 2 Admission Requirements

2.1 An applicant for admission to the academic program for the award of Graduate Certificate in Commerce shall have qualified for a degree of the University of Adelaide, or a degree of another institution accepted by the Faculty for the purpose as equivalent.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the award a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake the award.

## 2.3 Status, exemption and credit transfer

2.3.1 No candidate shall be granted status for courses with a total value of more than 3 units.

2.3.2 Exemptions will be granted for up to 6 units of courses where, in the opinion of the program coordinator, the candidate has already presented a course/s for another award that contain(s) substantially the same material as any of the courses in the program. All exemptions granted must be replaced by courses chosen by the candidate from other parts of the program or from the Master of Commerce program.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the graduate certificate award: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 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 purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

3.3 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially there from by the program coordinator or nominee, again complete the required work in the course to the satisfaction of the teaching staff concerned.

3.4 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

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

## 4 Qualification Requirements

4.1 To qualify for the award of Graduate Certificate in Commerce, a candidate shall satisfactorily complete courses to the value of 12 units from the list of courses below:

ACCTING 7019 Accounting Concepts & Methods (M) .....	3
COMMERCE 7033 Quantitative Methods (M) .....	3
COMMGMT 7008 Management Practice (M) .....	3
CORPFIN 7005 Principles of Finance (M) .....	3
ECON 7200 Economic Principles (M) .....	3
MARKETNG 7005 Marketing Principles (M) .....	3

## **Graduate Attributes**

### Graduate Certificate in Commerce

#### **Knowledge**

- Knowledge and understanding covering the breadth of the business disciplines. Students will gain a working insight into four of the following six business areas: accounting, economics, finance, management, marketing, and business statistics.

#### **Skills**

- High level critical thinking and problem solving skills
- Ability to evaluate and synthesise information and existing knowledge from a number of sources and experiences
- Capacity to engage with current issues of significance in commerce and government
- Capacity to design and construct a logically compelling management report
- Capacity to participate in teamwork
- High level oral communication skills
- High level written communication skills
- The capacity to engage in life-long learning.

#### **Attitudes and Values**

- A commitment to high levels of academic scholarship
- A commitment to business ethics and an appreciation of social justice through organisations that pursue good governance and conform to legal and professional standards and societies norms
- An appreciation of cultural diversity and sensitivity to the operation of commerce in this context.



# Graduate Certificate in Management

## 1 Duration of program

To qualify for the Graduate Certificate, a candidate shall satisfactorily complete a program of study comprising one (1) trimester of full-time study or three (3) trimesters of part-time study. Except with the permission of the Faculty, the requirements of the Graduate Certificate must be completed within 2 years.

## 2 Admission

2.1 An applicant for admission to the academic program for the Graduate Certificate in Management shall have qualified for a Bachelor degree of the University of Adelaide in an appropriate field of study, or a degree of another institution accepted by the Faculty for the purpose as equivalent, plus have at least two years approved relevant work experience.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the Graduate Certificate a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the graduate certificate.

## 2.3 Status, exemption and credit transfer

2.3.1 No candidate will be permitted to count for the degree any course that, in the opinion of the Faculty, contains substantially the same material as any other course that he or she has already presented for another award.

2.3.2 Advanced standing (status) may be awarded in exceptional circumstances and will only be awarded for equivalent graduate level studies that have been completed within the last 5 years.

2.3.3 In any case, no candidate will be awarded more than 6 units of advanced standing.

2.3.4 Exemption/substitution may be granted for up to 6 units where, in the opinion of the Faculty, the candidate has already presented a course for another award that has been completed within the last 10 years, that contains substantially the same material as a core course in the program. All substitution granted must be replaced by courses from other parts of the program.

2.3.5 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially therefrom by the Faculty or nominee, again complete the required work in the course to the satisfaction of the teaching staff concerned.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Graduate Certificate: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 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 purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

3.3 a A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty or nominee and then only under such conditions as may be prescribed.

b Supplementary examinations are allowable only in exceptional circumstances. A candidate must apply for special permission from the Head of School. In the case of a supplementary examination being granted, the overall maximum grade achievable for the course is 50% Pass.

## 3.4 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 reason 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 this program.

## 4 Qualification requirements

To qualify for the Graduate Certificate, a candidate shall satisfactorily complete courses to the value of 12 points, as follows:

### 4.1 Academic program

#### 4.1.1 Core Courses

All candidates shall complete the following core courses:

MANAGEMENT 7086 Fundamentals of Leadership ..3  
MANAGEMENT 7100 Accounting for Managers.....3  
MANAGEMENT 7104 Marketing Management.....3

#### 4.1.2 Elective courses

All candidates shall complete 1 elective course to the value of 3 units selected from the Master of Business Administration program.



#### **4.2 Unacceptable combination of courses**

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

#### **4.3 Graduation**

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

### **5 Special circumstances**

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



# Graduate Diploma of Business Administration

## 1 Duration of program

To qualify for the Graduate Diploma, a candidate shall satisfactorily complete a program of study comprising two (2) trimesters of full-time study or eight (8) trimesters of part-time study. Except with the permission of the Faculty, the requirements of the graduate diploma must be completed within 3 years.

## 2 Admission

2.1 An applicant for admission to the academic program for the Graduate Diploma of Business Administration shall have qualified for a Bachelor degree of the University of Adelaide in an appropriate field of study, or a degree of another institution accepted by the Faculty for the purpose as equivalent, plus have at least two years approved relevant work experience.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the graduate diploma a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the graduate diploma.

### 2.3 Status, exemption and credit transfer

2.3.1 No candidate will be permitted to count for the degree any course that, in the opinion of the Faculty, contains substantially the same material as any other course that he or she has already presented for another award.

2.3.2 Advanced standing (status) may be awarded in exceptional circumstances and will only be awarded for equivalent graduate level studies that have been completed within the last 5 years.

2.3.3 In any case, no candidate will be awarded more than 12 units of advanced standing.

2.3.4 Exemption/substitution may be granted for up to 12 units where, in the opinion of the Faculty, the candidate has already presented a course for another award, within the last 10 years, that contains substantially the same material as a core course in the program. All substitution granted must be replaced by courses from other parts of the program.

2.3.5 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially therefrom by the Faculty or nominee, again complete the required work in the course to the satisfaction of the teaching staff concerned.

### 2.4 Articulation with other awards

2.4.1 A candidate for the Graduate Diploma of Business Administration who does not complete the

requirements for the Graduate Diploma but satisfies the requirements for the Graduate Certificate in Management may be admitted to the latter award, as appropriate.

2.4.2 A candidate who has been admitted to the Graduate Certificate in Management and who subsequently satisfies the requirements for the Graduate Diploma of Business Administration must surrender the Graduate Certificate before being admitted to the Graduate Diploma

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Graduate Diploma: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 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 purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

3.3 a A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty or nominee and then only under such conditions as may be prescribed

b Supplementary examinations are allowable only in exceptional circumstances. A candidate must apply for special permission from the Head of School. In the case of a supplementary examination being granted, the overall maximum grade achievable for the course is 50% Pass.

### 3.4 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 reason 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 this program.

## 4 Qualification requirements

To qualify for the Graduate Diploma, a candidate shall satisfactorily complete courses to the value of 24 units, as follows:

## 4.1 Academic program

### 4.1.1 Core Courses

All candidates shall complete the following core courses:

MANAGEMENT 7086 Fundamentals of Leadership ..	3
MANAGEMENT 7087 Managing Contemporary..... Organisations.....	3
MANAGEMENT 7100 Accounting for Managers.....	3
MANAGEMENT 7101 Managerial Finance .....	3
MANAGEMENT 7103 Economics for Management..	3
MANAGEMENT 7104 Marketing Management.....	3

### 4.1.2 Elective courses

All candidates shall complete 2 elective courses to the value of 6 units selected from the Master of Business Administration program.

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

### 4.3 Graduation

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

## 5 Special circumstances

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



# Graduate Diploma in Global Wealth Management

## 1 Duration of program

To qualify for the award, a candidate shall satisfactorily complete a program of study comprising two semesters of full-time study or equivalent part-time study. The maximum time permitted for completion of the program is eight years.

## 2 Admission

2.1 An applicant for admission to the academic program for the award of Graduate Diploma in Global Wealth Management shall have qualified for a degree of the University of Adelaide, or a degree of another institution accepted by the Faculty for the purpose as equivalent.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the award a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake the award.

## 2.3 Status, exemption and credit transfer

No candidate shall be granted status for courses with a total value of more than 12 units (of which only 3 units can be from non-foundation courses) on account of courses presented for any other award.

2.4 Exemptions will be granted for up to 12 units of courses where, in the opinion of the program coordinator, the candidate has already presented a course/s for another award that contain(s) substantially the same material as any of the courses in the program. All exemptions granted must be replaced by courses chosen from other parts of the program.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Global Wealth Management award: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

- 3.2
- 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 purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

3.3 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially therefrom by the program coordinator or nominee, again complete the required work in the course to the satisfaction of the teaching staff concerned.

3.4 A candidate who has failed a course twice may not re-enrol in that course except by special

permission of the Faculty and then only under such conditions as may be prescribed.

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

## 4 Qualification requirements

4.1 To qualify for the award of Graduate Diploma in Global Wealth Management, a candidate shall satisfactorily complete courses to the value of 24 units including:

4.1.1 Foundation courses to the value of 12 units:  
 ACCTING 7019 Accounting Concepts and Methods (M)..... 3  
 COMMERCE 7033 Quantitative Methods (M)..... 3

or

MANAGEMENT 7233 Statistical, Quantitative & Analytical Thinking (MBA)..... 3

CORPFIN 7005 Principles of Finance (M) ..... 3

or

MANAGEMENT 7101 Managerial Finance ..... 3

ECON 7200 Economic Principles (M) ..... 3

or

MANAGEMENT 7103 Economics for Management... 3

MANAGEMENT 7100 Accounting for Managers..... 3

4.1.2 Compulsory courses to the value of 9 units:  
 CORPFIN 6003 Tax, Estate and Wealth Planning . 3  
 CORPFIN 6004 Global Wealth Management ..... 3  
 CORPFIN 6005 Investment Advisory Process and Client Relationship Management..... 3

4.1.3 Elective courses to the value of 3 units:  
 CORPFIN 6000 Industry Research Project ..... 3  
 CORPFIN 6001 Self Managed Super - Distribution and Estate Planning..... 3  
 CORPFIN 6002 Self Managed Super - Establishment and Accumulation..... 3  
 CORPFIN 7045 Wealth Management in China (M)..... 3

Any other 3 unit course from a postgraduate or honours program offered by the Faculty of the Professions with approval of/by the Head of the Business School or nominee.

Note: MBA courses will only be open to students meeting the 2-year professional experience criterion.

## 4.2 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.

## 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**

### Graduate Diploma in Global Wealth Management

- An appreciation of the principles and tools necessary to pursue further studies in the field of financial planning
- An in-depth understanding of the methods and techniques applied in the financial planning and related professions
- An understanding of the underlying theories and concepts that inform alternative perspectives adopted in approaching issues and problems in wealth management
- An understanding of the features of professional and regulatory frameworks and institutions relevant to the financial planning industry
- High level critical thinking and problem solving skills
- Ability to evaluate and synthesise information and existing knowledge from a number of sources and experiences
- Ability to appreciate the changing knowledge base of the financial planning and related professions, and to respond to the demand for change
- Capacity to engage with current issues of significance in commerce and government
- Ability to integrate accounting, finance, marketing and management skills so as to find progressive solutions for challenges of today's businesses and societies
- Capacity to apply financial theory to respond to demands of the respective practice
- Ability to recognise the limits of the professional discipline and a capacity to identify, develop and apply alternative methods to coincide diverging interests
- Capacity to design and construct a logically compelling report
- Capacity to participate in teamwork
- High level oral communication skills
- High level written communication skills
- The capacity to engage in life-long learning
- A commitment to high levels of academic scholarship
- A commitment to business ethics and an appreciation of social justice through organisations that pursue good governance and conform to legal and professional standards and societies norms
- An appreciation of cultural diversity and sensitivity to the operation of commerce in this context.

# Graduate Diploma in Wealth Management

**Note: This program is offered only in Singapore**

## 1 Duration of program

To qualify for the award, a candidate shall satisfactorily complete a program of study comprising four quadesters of full-time study or equivalent part-time study. The maximum time permitted for completion of the program is five years.

## 2 Admission Requirements

- 2.1 An applicant for admission to the academic program for the award of Graduate Diploma in Wealth Management shall have qualified for a four year undergraduate program in an institution accepted by the Faculty as appropriate OR have qualified for a three year program and have relevant work experience.
- 2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the award a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the award.
- ### 2.3 Status, exemption and credit transfer
- 2.3.1 No candidate shall be granted status for courses with a total value of more than 12 units on account of courses presented for any other award except with permission from the program co-ordinator.
- 2.3.2 Exemptions will be granted for up to 12 units for courses where, in the opinion of the program co-ordinator, the candidate has already presented a course/s for another award that contain(s) substantially the same material as any of the courses in the program. All exemptions granted must be replaced by courses chosen from other appropriate courses currently being offered at NAAEC as part of the University of Adelaide's MBA and Master of Applied Finance programs.

## 3 Qualification Requirements

- 3.1 To qualify for the award of Graduate Diploma in Wealth Management, a candidate shall satisfactorily complete courses to the value of 24 units including:
- a 12 units of Foundation Courses:
    - ACCTING 7019NA Accounting Concepts and Methods (M).....3
    - COMMERCE 7003NA Financial Quantitative Procedures (M) .....3
    - CORPFIN 7005NA Principles of Finance (M).....3
    - ECON 7200NA Economic Principles (M) .....3
- or

- MANAGEMENT 7103NA Economics for Management .....3
- b 9 units of Compulsory Courses:
  - CORPFIN 6007NA Global Wealth Management (S).....3
  - CORPFIN 6008NA Client Relationship Management & Business Development (S)....3
  - CORPFIN 7045NA Wealth Management in China (S).....3
- c 3 units of Elective Courses:
  - Elective courses may be drawn from appropriate courses currently being offered at NAAEC as part of The University of Adelaide's MBA and Master of Applied Finance programs.

## 4 Assessment and examinations

- 4.1 There shall be four classifications of pass in any course for the award: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.
- 4.2 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 purpose of this rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.
- 4.3 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially therefrom by the program co-ordinator or nominee, again complete the required work in the course to the satisfaction of the teaching staff concerned.
- 4.4 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed
- 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 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**

### Graduate Diploma in Wealth Management

- An appreciation of the principles and tools necessary to pursue further studies in the field of financial planning
- An in-depth understanding of the methods and techniques applied in the financial planning and related professions
- An understanding of the underlying theories and concepts that inform alternative perspectives adopted in approaching issues and problems in wealth management
- An understanding of the features of professional and regulatory frameworks and institutions relevant to the financial planning industry
- High level critical thinking and problem solving skills
- Ability to evaluate and synthesise information and existing knowledge from a number of sources and experiences
- Ability to appreciate the changing knowledge base of the financial planning and related professions, and to respond to the demand for change
- Capacity to engage with current issues of significance in commerce and government
- Ability to integrate accounting, finance, marketing and management skills so as to find progressive solutions for challenges of today's businesses and societies
- Capacity to apply financial theory to respond to demands of the respective practice
- Ability to recognise the limits of the professional discipline and a capacity to identify, develop and apply alternative methods to coincide diverging interests
- Capacity to design and construct a logically compelling report
- Capacity to participate in teamwork
- High level oral communication skills
- High level written communication skills
- The capacity to engage in life-long learning
- A commitment to high levels of academic scholarship
- A commitment to business ethics and an appreciation of social justice through organisations that pursue good governance and conform to legal and professional standards and societies norms
- An appreciation of cultural diversity and sensitivity to the operation of commerce in this context.



**Note: This program is offered only in Singapore**

## 1 Duration of program

To qualify for the degree, a candidate shall satisfactorily complete a program of study comprising six terms of full-time study or equivalent part-time. The maximum time permitted for completion of the program is five years.

## 2 Admission

- 2.1 An applicant for admission to the academic program for the degree of Master of Accounting shall have qualified for a four year undergraduate program in an institution accepted by the Faculty as appropriate OR have qualified for a three year program and have a minimum of two years relevant work experience.
- 2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the degree a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the degree.

## 2.3 Status, exemption and credit transfer

- 2.3.1 No candidate shall be granted status for courses with a total value of more than 12 units on account of courses presented for any other award except with permission of the Faculty.
- 2.3.2 Substitutions may be granted for up to 12 units of courses where, in the opinion of the Faculty, the candidate has already presented a course/s for another award that contain/s substantially the same material as any of the courses in the program. Substitutions granted must be replaced by courses from within the same discipline where possible.

## 3 Assessment and examinations

- 3.1 There shall be four classifications of pass in any course for the Masters degree: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.
- 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
  - For the purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.
- 3.3 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially therefrom by the Faculty or nominee, again complete the required work in the course to the satisfaction of the teaching staff concerned.

- 3.4 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 3.5 Academic progress

The Faculty may prescribe rules for review of academic progress. Any student who falls within the criteria 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

- 4.1.1 To qualify for the degree of Master of Accounting, a candidate shall satisfactorily complete courses to the value of 36 units, as follows:

#### 4.1.1 Core Courses

12 units from:

ACCTING 7019NA Accounting Concepts and Methods.....	3
COMMERCE 7003NA Financial Quantitative Procedures .....	3
CORPFIN 7005NA Principles of Finance .....	3
ECON 7200NA Economic Principles (M) .....	3

#### 4.1.2 Accounting courses:

18 units from:

ACCTING 7009NA Auditing and Assurance Services .....	3
ACCTING 7014NA Management Accounting .....	3
ACCTING 7020NA Intermediate Financial Reporting .....	3
ACCTING 7023NA Advanced Financial Accounting.....	3
COMMERCE 7021NA Commercial Law and Information Systems .....	3
COMMLAW 7011NA Corporate Law .....	3

#### 4.1.3 Elective courses

6 units selected from:

COMMLAW 7013NA Income Taxation.....	3
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and other courses currently being offered at NAAEC as part of the University of Adelaide's MBA and Master of Applied Finance programs.

## 4.2 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.

## 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

### Master of Accounting

- The ability to identify and analyse contemporary thinking and developments within the fields of accounting, auditing, business law and business systems, which are set in the context of the management and governance of organisations that interface with securities markets, governments and societies
- An understanding of the application of accounting methods and techniques and their contribution to financial planning, control, performance measurement and decision-making by management and investors
- Advanced critical and strategic thinking skills, capabilities and competencies in relation to accounting and business analysis issues and problems
- Ability to apply technical and analytical skills, using relevant decision frameworks and empirical research evidence, to address specific accounting and business system problems
- The ability to think creatively and generate innovative solutions by developing a capability in the accounting discipline that can record, analyze, report and interpret complex financial and other corporate information
- Skills in identifying and solving accounting and business analysis problems emerging from strategic developments in practice and regulation
- The ability to adopt multiple perspectives in applying planning, control and evaluation techniques to the operational, financial, and environmental dimensions of an organization and its sub-units
- Ability to communicate ideas effectively in both informal group discussions and formal presentations.
- Ability to produce both complex research reports intended for review by academics and/or experts, and management reports intended for decision-making by general managers
- Sound written and oral communication skills, particularly in relation to presenting articulate analyses and arguments
- Proficiency the use of electronic databases, web searching, ethnographical investigative methods, and the preparation of multimedia presentations
- A deep appreciation of continuous change and improvement in organisations and societies
- An understanding of the importance of lifelong learning in fields of accounting, regulatory frameworks, business systems and management
- An awareness of their potential responsibilities as practicing members of a professional accounting body
- Ability to take a leadership role in their profession and the wider business community
- A heightened understanding of ethical issues and dilemmas that will be faced as accounting professionals who advise and provide services to clients or managements
- A sensitivity to cultural and social issues, particularly concerned with organisations that operate internationally.



# Master of Accounting and Finance

## 1 Duration of program

To qualify for the degree, a candidate shall satisfactorily complete a program of study comprising four semesters of full-time study or equivalent part-time study. The maximum time permitted for completion of the program is eight years.

## 2 Admission

2.1 An applicant for admission to the academic program for the degree of Master of Accounting and Finance shall have qualified for a degree of the University of Adelaide, or a degree of another institution accepted by the Faculty for the purpose as equivalent.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the degree a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake the degree.

## 2.3 Status, exemption and credit transfer

2.3.1 No candidate shall be granted status for courses with a total value of more than 12 units on account of courses presented for any other award except with permission of Faculty.

2.3.2 Substitutions may be granted for up to 12 units where, in the opinion of Faculty, the candidate has already presented a course/s for another award that contain(s) substantially the same material as any course in the program. All substitutions granted must be replaced by courses from other parts of the program.

2.3.3 A candidate who has completed either the Master of Commerce (Accounting) or the Master of Commerce (Applied Finance) at the University of Adelaide and who applies for transfer to the Master of Accounting and Finance may be granted full credit for the total units completed. A candidate who has been admitted to the Master of Commerce (Accounting) or the Master of Commerce (Applied Finance) and who subsequently satisfies the requirements for the Master of Accounting and Finance must surrender the Master of Commerce degree before being admitted to the award of Master of Accounting and Finance.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Masters degree: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 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 purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

3.3 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially therefrom by the Head of Faculty or nominee, again complete the required work in the course to the satisfaction of the teaching staff concerned.

3.4 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 3.5 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 To qualify for the degree of Master of Accounting and Finance, a candidate shall satisfactorily complete courses to the value of 48 units as follows:

### 4.1.1 Foundation Courses

12 units of Foundation Courses:

ACCTING 7019 Accounting Concepts & Methods (M) .....	3
COMMERCE 7033 Quantitative Methods (M) .....	3
CORPFIN 7005 Principles of Finance (M).....	3
ECON 7200 Economic Principles (M).....	3

### 4.1.2 Accounting courses

12 units of Accounting courses from:

ACCTING 7014 Management Accounting (M).....	3
ACCTING 7020 Intermediate Financial Reporting (M).....	3
ACCTING 7023 Advanced Financial Accounting (M) .....	3
COMMERCE 7021 Commercial Law and Information Systems (M).....	3
COMMLAW 7011 Corporate Law (M).....	3

### 4.1.3 Applied Finance courses

12 units of Applied Finance courses:

CORPFIN 7019 Portfolio Theory and Management (M) .....	3
CORPFIN 7020 Options, Futures and Risk Management (M) .....	3
CORPFIN 7039 Equity Valuation and Analysis (M) .....	3
CORPFIN 7040 Fixed Income Securities (M) .....	3

#### 4.1.4 either

- i a further 6 units of Accounting courses from 4.1.2 or 4.2.1  
or
- ii a further 6 units of Applied Finance courses from 4.2.2.

4.1.5 6 units of electives to be selected from 4.2.1, 4.2.2 and 4.2.3 below. Unless exempted, all international students are required to undertake the specialist course COMMERCE 7041 Business Communications (M). This course may be presented in lieu of an elective.

## 4.2 Academic program

### 4.2.1 Accounting

ACCTING 7009 Auditing and Assurance Services (M) .....	3
ACCTING 7015 Advanced Financial Reporting (M) .....	3
ACCTING 7018 Public Sector and Not-For-Profit Accountability (M) .....	3
COMMLAW 7013 Income Taxation (M) .....	3
COMMLAW 7016 Business Taxation and GST (M)3	
COMMERCE 7036 Knowledge Management and Measurement (M) .....	3
CORPFIN 7017 Financial Statement Analysis (M)....	3

### 4.2.2 Applied Finance

CORPFIN 7017 Financial Statement Analysis (M)....	3
CORPFIN 7021 Corporate Investment & Strategy (M) .....	3
CORPFIN 7022 Corporate Finance Theory (M) .....	3
CORPFIN 7023 Financial Modelling Techniques (M) .....	3
CORPFIN 7042 Treasury and Financial Risk Management (M) .....	3
ECON 7096 Econometrics IIID .....	3
ECON 7114 Money, Banking and Financial Markets IIID .....	3
ECON 7201 International Finance (M).....	3

### 4.2.3 Electives

BUSINESS 7000 Social Challenges to Global Business .....	3
COMMERCE 7041 Business Communications (M) * .....	3
ECOMMRC 7004 Internet Commerce (M).....	3

Any other course from a postgraduate or honours program offered by the Faculty of Professions with approval of Head of Faculty.

*\* Unless exempted, all international students are required to undertake this course.*

Note: MBA electives will normally be open to students meeting the 2-year professional experience criterion.

## 4.3 Graduation

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

## 5 Special circumstances

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

## **Graduate Attributes**

### Master of Accounting and Finance

#### **Knowledge**

- Knowledge and understanding covering the breadth of the discipline of finance and accounting, leading to the ability to competently analyse the management and governance of organisations that interface with securities markets, analyse financial instruments and world financial markets at an advanced level that is internationally recognised.

Specifically, the program will:

- Provide knowledge and understanding of issues associated with pricing and trading financial instruments in equity, fixed income and derivatives markets, along with the application of accounting methods and business systems
- Provide the ability to formulate and test trading strategies along with an understanding of how to benchmark and manage diversified funds. Provide an ability to contribute to financial planning, control and performance measurements within organisations
- Knowledge of the key factors involved in determining investment policy statements suitable for clients with differing investment profiles.
- Provide knowledge of potential responsibility as a practising member of a professional accounting body, along with information regarding the ethical issues faced by those who advise and provide services to clients or management.

#### **Skills**

- High level critical thinking and problem solving skills
- Ability to evaluate and synthesise information and existing knowledge from a number of sources and experiences
- Ability to appreciate the changing knowledge base of the finance profession and to respond to the demand for change
- Capacity to engage with current issues of significance in commerce and government
- Ability to integrate accounting, finance, marketing and management skills so as to find progressive solutions for challenges of today's businesses and societies
- Capacity to apply finance theory to respond to demands of the respective practice
- Ability to recognise the limits of the professional discipline and a capacity to identify, develop and apply alternative methods to coincide diverging interests
- Capacity to design and construct a logically compelling management report
- Capacity to participate in teamwork
- High level oral communication skills
- High level written communication skills
- The capacity to engage in life-long learning.

#### **Attitudes and Values**

- A commitment to high levels of academic scholarship
- A commitment to business ethics and an appreciation of social justice through organisations that pursue good governance and conform to legal and professional standards and societies norms
- An appreciation of cultural diversity and sensitivity to the operation of commerce in this context.

## 1 Duration of program

To qualify for the degree, a candidate shall satisfactorily complete a program of study comprising four semesters of full-time study or equivalent part-time study. The maximum time permitted for completion of the program is eight years.

## 2 Admission

2.1 An applicant for admission to the academic program for the degree of Master of Accounting and Marketing shall have qualified for a degree of the University of Adelaide, or a degree of another institution accepted by the Faculty for the purpose as equivalent.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the degree a person who does not satisfy the requirements of Rule 1.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake the degree.

### 2.3 Status, exemption and credit transfer

2.3.1 No candidate shall be granted status for courses with a total value of more than 12 units on account of courses presented for any other award except with permission of Faculty.

2.3.2 Substitutions may be granted for up to 12 units where, in the opinion of Faculty, the candidate has already presented a course/s for another award that contain(s) substantially the same material as any course in the program. All substitutions granted must be replaced by courses from other parts of the program.

2.3.3 A candidate who has completed either the Master of Commerce (Accounting) or the Master of Commerce (Marketing) at the University of Adelaide and who applies for transfer to the Master of Accounting and Marketing may be granted full credit for the total units completed. A candidate who has been admitted to the Master of Commerce (Accounting) or the Master of Commerce (Marketing) and who subsequently satisfies the requirements for the Master of Accounting and Marketing must surrender the Master of Commerce degree before being admitted to the award of Master of Accounting and Marketing.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Masters degree: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 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 purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

3.3 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially therefrom by the Head of Faculty or nominee, again complete the required work in the course to the satisfaction of the teaching staff concerned.

3.4 A candidate who has failed a course twice may not reenrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 3.5 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 To qualify for the degree of Master of Accounting and Marketing, a candidate shall satisfactorily complete courses to the value of 48 units as follows:

### 4.1.1 Foundation Courses

12 units from:

ACCTING 7019 Accounting Concepts & Methods (M).....	3
COMMERCE 7033 Quantitative Methods (M).....	3
CORPFIN 7005 Principles of Finance (M).....	3
ECON 7200 Economic Principles (M).....	3

### 4.1.2 Accounting courses

15 units from:

ACCTING 7014 Management Accounting (M).....	3
ACCTING 7020 Intermediate Financial Reporting (M).....	3
ACCTING 7023 Advanced Financial Accounting (M).....	3
COMMERCE 7021 Commercial Law and Information Systems (M).....	3
COMMLAW 7011 Corporate Law (M).....	3

#### 4.1.3 Marketing courses:

15 units from:

MARKETNG 7005 Marketing Principles (M).....	3
MARKETNG 7023 Consumer Behaviour (M).....	3
MARKETNG 7025 Marketing Communications (M) .....	3
MARKETNG 7026 Market Research & Planning (M).....	3
MARKETNG 7030 Marketing Ethics.....	3

#### 4.1.4 Either

a further 6 units of Accounting courses from 4.2.1

or

a further 6 units of Marketing courses from 4.2.2

or

a further 6 units of Electives 4.2.3.

Unless exempted, all international students are required to undertake the specialist course COMMERCE 7041 Business Communications (M). This course may be presented in lieu of an elective.

### 4.2 Further courses

#### 4.2.1 Accounting

ACCTING 7009 Auditing and Assurance Services (M) .....	3
ACCTING 7015 Advanced Financial Reporting (M).....	3
ACCTING 7018 Public Sector and Not-For-Profit Accountability (M).....	3
COMMERCE 7036 Knowledge Management and Measurement (M).....	3
COMMLAW 7013 Income Taxation (M) .....	3
COMMLAW 7016 Business Taxation & GST (M)....	3
CORPFIN 7017 Financial Statement Analysis (M)....	3

#### 4.2.2 Marketing

MARKETNG 7024 International Marketing (M) .....	3
MARKETNG 7027 Brand Management (M) .....	3
MARKETNG 7028 E-Marketing (M) .....	3
MARKETNG 7031 Relationship Marketing (M) .....	3
MARKETNG 7032 Strategic Marketing (M).....	3
MARKETNG 7033 New Product Development and Innovation (M)* .....	3

#### 4.2.3 Electives

COMMERCE 7041 Business Communications (M) <sup>#</sup> .....	3
ECOMMRCE 7004 Internet Commerce (M).....	3

Any other course from a postgraduate or honours program offered by the Faculty of Professions with approval of Head of Faculty.

<sup>#</sup> Unless exempted, all international students are required to undertake this course.

Note: MBA electives will normally be open to students meeting the 2-year professional experience criterion.

### 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.



## 1 Duration of program

To qualify for the degree, a candidate shall satisfactorily complete a program of study comprising four semesters of full-time study or equivalent part-time study. The maximum time permitted for completion of the program is eight years.

## 2 Admission

2.1 An applicant for admission to the academic program for the degree of Master of Accounting and Performance Management shall have qualified for a degree of the University of Adelaide, or a degree of another institution accepted by the Faculty for the purpose as equivalent.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the degree a person who does not satisfy the requirements of Rule 1.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake the degree.

## 2.3 Status, exemption and credit transfer

2.3.1 No candidate shall be granted status for courses with a total value of more than 12 units on account of courses presented for any other award except with permission of Faculty.

2.3.2 Substitutions may be granted for up to 12 units where, in the opinion of Faculty, the candidate has already presented a course/s for another award that contain(s) substantially the same material as any course in the program. All substitutions granted must be replaced by courses from other parts of the program.

2.3.3 A candidate who has completed either the Master of Commerce (Accounting) or the Master of Commerce (Performance Management) at the University of Adelaide and who applies for transfer to the Master of Accounting and Performance Management may be granted full credit for the total units completed. A candidate who has been admitted to the Master of Commerce (Accounting) or the Master of Commerce (Performance Management) and who subsequently satisfies the requirements for the Master of Accounting and Performance Management must surrender the Master of Commerce degree before being admitted to the award of Master of Accounting and Performance Management.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Masters degree: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 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 purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

3.3 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially therefrom by the Head of Faculty or nominee, again complete the required work in the course to the satisfaction of the teaching staff concerned.

3.4 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 3.5 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 To qualify for the degree of Master of Accounting and Performance Management, a candidate shall satisfactorily complete courses to the value of 48 units as follows:

### 4.1.1 Foundation Courses

12 units from:

ACCTING 7019 Accounting Concepts & Methods (M).....	3
COMMERCE 7033 Quantitative Methods (M).....	3
CORPPIN 7005 Principles of Finance (M).....	3
ECON 7200 Economic Principles (M).....	3

### 4.1.2 Accounting courses

15 units from:

ACCTING 7014 Management Accounting (M).....	3
ACCTING 7020 Intermediate Financial Reporting (M).....	3

ACCTING 7023 Advanced Financial Accounting (M) .....	3
COMMERCE 7021 Commercial Law and Information Systems (M).....	3
COMMLAW 7011 Corporate Law (M).....	3

#### 4.1.3 Management courses

COMMGMT 7006 Organisational Behaviour (M) ..3	
3 units from:	
COMMGMT 7007 Strategic Management (M) .....	3
COMMGMT 7008 Management Practice (M).....	3
plus 9 units from:	
COMMGMT 7009 Structure and Performance in Organisations (M) .....	3
COMMGMT 7010 Optimising Human Performance (M).....	3
COMMGMT 7011 Corporate Governance and Globalisation (M).....	3
COMMGMT 7012 Managing Social Responsibility (M) .....	3
COMMGMT 7013 Strategic Evaluation & Control (M).....	3
COMMGMT 7014 Strategic Compensation Management (M).....	3

#### 4.1.4 Either

a further 6 units of Accounting courses from 4.2.1  
*or*

a further 6 units of Performance Management courses from 4.2.2

*or*

a further 6 units of Electives 4.2.3.

Unless exempted, all international students are required to undertake the specialist course COMMERCE 7041 Business Communications (M). This course may be presented in lieu of an elective.

## 4.2 Further courses

### 4.2.1 Accounting

ACCTING 7009 Auditing and Assurance Services (M).....	3
ACCTING 7015 Advanced Financial Reporting (M).....	3
ACCTING 7018 Public Sector and Not-For-Profit Accountability (M).....	3
COMMERCE 7036 Knowledge Management Measurement (M).....	3
COMMLAW 7013 Income Taxation (M) .....	3
COMMLAW 7016 Business Taxation and GST (M).....	3
CORPFIN 7017 Financial Statement Analysis (M)....	3

### 4.2.2 Management

COMMGMT 7006 Organisational Behaviour (M) ..3	
COMMGMT 7008 Management Practice (M).....	3
COMMGMT 7009 Structure and Performance in Organisations (M) .....	3
COMMGMT 7010 Optimising Human Performance (M) .....	3
COMMGMT 7011 Corporate Governance and Globalisation(M).....	3
COMMGMT 7012 Managing Social Responsibility (M) .....	3
COMMGMT 7013 Strategic Evaluation & Control (M).....	3
COMMGMT 7014 Strategic Compensation Management (M).....	3

### 4.2.3 Electives

COMMERCE 7041 Business Communications (M) <sup>#</sup> .....	3
ECOMMRCE 7004 Internet Commerce (M).....	3

Any other course from a postgraduate or honours program offered by the Faculty of Professions with approval of Head of Faculty.

<sup>#</sup> Unless exempted, all international students are required to undertake this course.

Note: MBA electives will normally be open to students meeting the 2-year professional experience criterion.

## 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

Master of Accounting and Marketing

Master of Accounting and Performance Management

- The ability to identify and analyse contemporary thinking and developments within the fields of accounting, which are set in the context of the management and governance of organisations that interface with securities markets, governments and investors.
- An understanding of the application of accounting methods and techniques and their contribution to financial planning, control, performance measurement and decision-making by management and investors.
- Advanced critical and strategic thinking skills, capabilities and competencies in relation to business analysis issues and problems.
- The ability to apply technical and analytical skills, using relevant decision frameworks and empirical research evidence, to address specific accounting and management problems.
- The ability to think creatively and generate innovative solutions by developing a capability in the accounting discipline that can record, analyse, report and interpret complex financial and other corporate information.
- The ability to adopt multiple perspectives in applying planning, control and evaluation techniques to the operational, financial, and environmental dimensions of an organisation and its sub-units.
- Ability to communicate ideas effectively in both informal group discussions and formal presentations.
- Ability to produce both complex research reports intended for review by academics and/or experts, and management reports intended for decision-making by general managers.
- Sound written and oral communication skills, particularly in relation to presenting articulate analyses and arguments.
- Proficiency in the use of electronic databases, web searching, ethnographical investigative methods, and the preparation of multimedia presentations.
- A deep appreciation of continuous change and improvement in organisations and societies.
- An understanding of the importance of lifelong learning in fields in accounting, regulatory frameworks, business systems and management.
- An awareness of potential responsibilities as practicing members of a professional accounting body
- Ability to take a leadership role in the business community.
- A high level of understanding of ethical issues and dilemmas that will be faced as accounting and/or marketing professionals.
- A sensitivity to cultural and social issues, particularly concerned with organisations that operate internationally.



## 1 Duration of program

To qualify for the degree, a candidate shall satisfactorily complete a program of study equivalent to one and a half (1.5) years of full-time study. Except with the permission of the Faculty, the requirements of the degree must be completed within 5 years.

## 2 Admission

2.1 An applicant for admission to the academic program for the degree of Master of Applied Finance shall have qualified for a four (4) year undergraduate program in an institution accepted by the Faculty as appropriate OR have qualified for a three (3) year program and have relevant work experience.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the degree a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the degree. This may include acceptance of professional qualifications where they are of high quality and provide an appropriate background to undertake a postgraduate qualification in finance.

### 2.3 Status, exemption and credit transfer

2.3.1 No candidate will be permitted to count for the degree any course that, in the opinion of the Faculty, contains substantially the same material as any other course that he or she has already presented for another award. Except with special permission of the Faculty, no candidate will be granted status for another course that he or she has presented for any award.

2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for equivalent graduate level studies.

2.3.3 In any case, no candidate will be awarded more than 12 units of status.

2.3.4 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially therefrom by the Executive Dean or nominee, again complete the required work in the course to the satisfaction of the teaching staff concerned.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Masters degree: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 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 purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Executive Dean or nominee and then only under such conditions as may be prescribed.

## 3.4 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 Academic program

To qualify for the degree, a candidate shall satisfactorily complete courses to the value of 36 units, as follows:

#### 4.1.1 Core Courses

All candidates shall complete the following core courses:

ACCTING 7019NA Accounting Concepts & Methods (M) .....	3
COMMERCE 7005NA Principles of Finance .....	3
COMMERCE 7006NA Equity .....	4
COMMERCE 7007NA Fixed Income Securities ...	4
COMMERCE 7008NA Futures, Options and Swaps .....	4
COMMERCE 7009NA Corporate Finance Theory .....	4
COMMERCE 7010NA Portfolio Management.....	4
COMMERCE 7033NA Quantitative Methods (M) .....	3
ECON 7200NA Economic Principles (M).....	3

**4.1.2 Elective courses**

All candidates shall complete one elective to the value of 4 points selected from the list of approved electives:

CORPFIN 7017NA Financial Statement Analysis (M).....3  
CORPFIN 70142NA Treasury & Financial Risk Management (M).....3  
CORPFIN 7046NA Personal Financial Planning (M).....3  
CORPFIN 7047NA Principles of Financial Modelling (M).....3

**4.2 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.

**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**

Master of Applied Finance

Master of Commerce (Applied Finance)

### **Knowledge**

- Knowledge and understanding covering the breadth of the discipline of finance, leading to the ability to competently analyse financial instruments and world financial markets at an advanced level that is internationally recognised.

Specifically, the program will:

- Provide knowledge and understanding of issues associated with pricing and trading financial instruments in equity, fixed income and derivatives markets
- Ability to formulate and test trading strategies along with an understanding of how to benchmark and manage diversified funds
- Knowledge of the key factors involved in determining investment policy statements suitable for clients with differing investment profiles.

### **Skills**

- High level critical thinking and problem solving skills
- Ability to evaluate and synthesise information and existing knowledge from a number of sources and experiences
- Ability to appreciate the changing knowledge base of the finance profession and to respond to the demand for change
- Capacity to engage with current issues of significance in commerce and government
- Ability to integrate accounting, finance, marketing and management skills so as to find progressive solutions for challenges of today's businesses and societies
- Capacity to apply finance theory to respond to demands of the respective practice
- Ability to recognise the limits of the professional discipline and a capacity to identify, develop and apply alternative methods to coincide diverging interests
- Capacity to design and construct a logically compelling management report
- Capacity to participate in teamwork
- High level oral communication skills
- High level written communication skills
- The capacity to engage in life-long learning.

### **Attitudes and Values**

- A commitment to high levels of academic scholarship
- A commitment to business ethics and an appreciation of social justice through organisations that pursue good governance and conform to legal and professional standards and societies norms
- An appreciation of cultural diversity and sensitivity to the operation of commerce in this context.

## 1 Duration of program

To qualify for the degree, a candidate shall satisfactorily complete a program of study comprising three (3) trimesters of full-time study or twelve (12) trimesters of part-time study. Except with the permission of the Faculty, the requirements of the degree must be completed within 5 years.

## 2 Admission

2.1 An applicant for admission to the academic program for the degree of Master of Business Administration shall have qualified for a Bachelor degree of the University of Adelaide in an appropriate field of study, or a degree of another institution accepted by the Faculty for the purpose as equivalent, plus have at least two years approved relevant work experience.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the degree a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the degree.

### 2.3 Status, exemption and credit transfer

2.3.1 No candidate will be permitted to count for the degree any course that, in the opinion of the Faculty, contains substantially the same material as any other course that he or she has already presented for another award.

2.3.2 Advanced standing (status) may be awarded in exceptional circumstances and will only be awarded for equivalent graduate level studies which have been completed within the last 5 years.

2.3.3 In any case, no candidate will be awarded more than 18 units of advanced standing.

2.3.4 Exemption/substitution may be granted for up to 18 units where, in the opinion of the Faculty, the candidate has already presented a course for another award, within the last 10 years, that contains substantially the same material as a core course in the program. All substitution granted must be replaced by courses from other parts of the program.

2.3.5 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially therefrom by the Faculty or nominee, again complete the required work in the course to the satisfaction of the teaching staff concerned.

## 2.4 Articulation with other awards

2.4.1 A candidate for the Master of Business Administration who does not complete the requirements for the Masters degree but satisfies the requirements for the Graduate Certificate in Management or Graduate Diploma of Business Administration may be admitted to one of those awards, as appropriate.

2.4.2 A candidate who has been admitted to the Graduate Certificate in Management or Graduate Diploma of Business Administration and who subsequently satisfies the requirements for the Master of Business Administration must surrender the Graduate Certificate or Graduate Diploma before being admitted to the Masters degree.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Masters degree: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 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 purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

3.3 a A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty or nominee and then only under such conditions as may be prescribed.

b Supplementary examinations are allowable only in exceptional circumstances. A candidate must apply for special permission from the Head of School. In the case of a supplementary examination being granted, the overall maximum grade achievable for the course is 50% Pass.

### 3.4 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 reason 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 this program.

## 4 Qualification requirements

To qualify for the degree, a candidate shall satisfactorily complete courses to the value of 36 units, as follows:

### 4.1 Academic program

#### 4.1.1 Core Courses

All candidates shall complete the following core courses:

MANAGEMENT 7013 Economics for Management	.3
MANAGEMENT 7044 Strategic Management	.....3
MANAGEMENT 7081 Global Business	.....3
MANAGEMENT 7086 Fundamentals of Leadership	..3
MANAGEMENT 7087 Managing Contemporary Organisations	.....3
MANAGEMENT 7100 Accounting for Managers	.....3
MANAGEMENT 7101 Managerial Finance	..... 3
MANAGEMENT 7104 Marketing Management	..... 3

#### 4.1.2 Elective courses

All candidates shall complete 4 elective courses to the value of 12 units selected from the Master of Business Administration program.

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

### 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.



## 1 Duration of program

To qualify for the degree, a candidate shall satisfactorily complete a program of study comprising four (4) trimesters of full-time study or sixteen (16) trimesters of part-time study. Except with the permission of the Faculty, the requirements of the degree must be completed within 6 years.

## 2 Admission

- 2.1 An applicant for admission to the academic program for the degree of Master of Business Administration (Advanced) shall have qualified for a Bachelor degree of the University of Adelaide in an appropriate field of study, or a degree of another institution accepted by the Faculty for the purpose as equivalent, plus have at least two years approved relevant work experience.
- 2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the degree a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the degree

## 2.3 Status, exemption and credit transfer

- 2.3.1 No candidate will be permitted to count for the degree any course that, in the opinion of the Faculty, contains substantially the same material as any other course that he or she has already presented for another award.
- 2.3.2 Advanced standing (status) may be awarded in exceptional circumstances will only be awarded for equivalent graduate level studies, which have been completed within the last 5 years.
- 2.3.3 In any case, no candidate will be awarded more than 24 points of advanced standing.
- 2.3.4 Exemption/substitution may be granted for up to 18 units where, in the opinion of the Faculty, the candidate has already presented a course for another award, within the last 10 years, that contains substantially the same material as a core course in the program. All exemptions granted must be replaced by courses from other parts of the program.
- 2.3.5 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially therefrom by the Faculty or nominee, again complete the required work in the course to the satisfaction of the teaching staff concerned.

## 2.4 Articulation with other awards

- 2.4.1 A candidate for the Master of Business Administration (Advanced) who does not complete the requirements for the degree but satisfies the requirements for the Graduate Certificate in Management, Graduate Diploma of Business Administration or Master of Business Administration may be admitted to one of those awards, as appropriate.
- 2.4.2 A candidate who has been admitted to the Graduate Certificate in Management, Graduate Diploma of Business Administration or Master of Business Administration and who subsequently satisfies the requirements for the Master of Business Administration (Advanced) must surrender the Graduate Certificate, Graduate Diploma or Masters before being admitted to the Master of Business Administration (Advanced) degree.

## 3 Assessment and examinations

- 3.1 There shall be four classifications of pass in any course for the Masters degree: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.
- 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.
  - For the purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.
- 3.3
- A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty or nominee and then only under such conditions as may be prescribed.
  - Supplementary examinations are allowable only in exceptional circumstances. A candidate must apply for special permission from the Head of School. In the case of a supplementary examination being granted, the overall maximum grade achievable for the course is 50% Pass.

## 3.4 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 reason 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 this program.

## 4 Qualification requirements

To qualify for the degree, a candidate shall satisfactorily complete courses to the value of 48 points, as follows:

### 4.1 Academic program

#### 4.1.1 Core Courses

All candidates shall complete the following core courses:

MANAGEMENT 7013 Economics for Management	.3
MANAGEMENT 7022 Business Law.....	3
MANAGEMENT 7031 Operations Management	.....3
MANAGEMENT 7044 Strategic Management.....	3
MANAGEMENT 7081 Global Business.....	3
MANAGEMENT 7086 Fundamentals of Leadership..	3
MANAGEMENT 7087 Managing Contemporary Organisations.....	3
MANAGEMENT 7100 Accounting for Managers.....	3
MANAGEMENT 7101 Managerial Finance.....	3
MANAGEMENT 7104 Marketing Management.....	3
MANAGEMENT 7072 Management Project	.....3

*or*

MANAGEMENT 7225 Business Project	.....3
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#### 4.1.2 Elective courses

All candidates shall complete 5 elective courses to the value of 15 units selected from the list of approved electives.

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

### 4.3 Graduation

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

## 5 Special circumstances

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

## **Graduate Attributes**

Graduate Certificate in Management

Graduate Diploma of Business Administration

Master of Business Administration

### **Knowledge**

- An understanding of trends in the political, economic, technological, social and cultural environments within which businesses operate
- An understanding of the forces leading towards international convergence in managerial practices, and those leading to divergence
- An understanding of the role of business in value creation through the integrated management of business processes
- An understanding of the theories and tools that support managerial decision making processes in organisations
- An appreciation of the constraints facing organizations as they balance the application of business and management theories to practical situations.

### **Skills**

- Ability to appreciate the changing knowledge base of management and the business environment and to respond to the demands for change
- Capacity to engage with current issues of significance in business and management
- Ability to manage complex business situations that require understanding of a wide range of functional issues
- Ability to evaluate and synthesise information and existing knowledge from numerous sources and experiences
- Ability to integrate functional business skills and personal business experience to find progressive solutions for the challenges of today's businesses and organisations
- Capacity to apply relevant theories to the demands of business and management practice
- Ability to recognise the limits of management practice and a capacity to identify, develop and apply alternative methods to coincide diverging interests
- Ability to identify complex business issues, ascertain their causes and effects through application of appropriate analytical tools, develop feasible and constructive solutions and provide advice to relevant business managers for successful implementation
- Capacity to participate constructively in team situations to complete tasks and meet deadlines
- High level analytical, critical thinking and problem solving skills
- High level oral communication skills
- High level written communication skills
- Capacity to engage in life-long learning.

### **Attitudes and Values**

- A commitment to objectivity, intellectual inquiry and intellectual rigour
- An appreciation of the role of business ethics
- Dedication to the pursuit of new knowledge and continuous learning
- An appreciation of cultural diversity and sensitivity to the operation of business in this context
- An appreciation of social justice through organisations that pursue good governance, meet professional standards and conform to societal norms.



## 1 Duration of program

To qualify for the degree, a candidate shall satisfactorily complete a program of study comprising three semesters of full-time study or equivalent part-time. The maximum time permitted for completion of the program is six years.

## 2 Admission

2.1 An applicant for admission to the academic program for the degree of Master of Business Research shall have completed a Bachelors degree in a business-related discipline or a Masters by coursework degree of the University of Adelaide in a business-related discipline, or a degree of another institution accepted by the Faculty for the purpose as equivalent, and obtained at least a credit average or other selection criteria as determined by the Faculty.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the degree a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the degree.

### 2.3 Status, exemption and credit transfer

No candidate shall be granted credit for courses with a total value of more than 12 units on account of courses presented for any other award.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Masters degree: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

- 3.2 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 purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

3.3 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially therefrom by the Head of the Business School or nominee, again complete the required work in the course to the satisfaction of the teaching staff concerned.

### 3.4 Academic progress

3.4.1 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.

3.4.2 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

To qualify for the degree of Master of Business Research, a candidate shall satisfactorily complete courses to the value of 36 units, as follows:

4.1 12 units selected from within one discipline from courses listed in the academic program rules for the Master of Commerce or Master of Business Administration, or a combination of courses approved by the Faculty.

4.2 In addition, the courses presented must include:

- i COMMERCE 7016 Advanced Readings (M)...3  
COMMERCE 7037 Research Methodology (M)..3
- ii 3 units chosen from:
  - COMMERCE 7033 Quantitative Methods ..... 3
  - COMMERCE 7100 Qualitative Methods (M) .3
  - ECON 7001 Applied Econometrics..... 3
  - ECON 7022 Econometrics IIID.....3
  - ECON 7204 Econometrics IV.....3
- iii 3 units chosen from:
  - ACCTING 7101 Advanced Theory in Accounting (M).....3
  - CORPFIN 7102 Advanced Theory in Finance (M).....3
  - COMMERCE 7104 Advanced Theory in Management (M).....3
  - MARKETING 7103 Advanced Theory in Marketing (M).....3

*and*

- iv COMMERCE 7105 Dissertation (M) ..... 12

### 4.3 Graduation

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

## 5 Special circumstances

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

## **Graduate Attributes**

### Master of Business Research

#### **Knowledge**

- A high level knowledge, understanding and proficiency in research methods
- Knowledge and understanding of the content of their chosen discipline at advanced levels that are internationally recognised.

#### **Intellectual and social capabilities**

- A higher level of cognitive skills such as the ability to analyse, evaluate and synthesise information from a wide variety of sources and experiences
- A growth in critical thinking and problem-solving skills
- A further development of numeracy, literacy and visual communication skills of a high order
- A maturing of skills in interpersonal understanding, with the capacity to communicate effectively and to work both independently and cooperatively
- A confidence in their ability to undertake future research in their chosen area of specialisation
- The enhanced capacity to learn and maintain intellectual curiosity and a commitment to continuous learning throughout their lives
- The significant improvement in their ability to take a leadership role in the community and a commitment to the highest standards of professional endeavour
- An enhanced proficiency in the appropriate use of modern technologies within a socially responsible context.

#### **Attitudes and Values**

- The heightened capacity to be informed, responsible and critically discriminating participants in academic, social, cultural and moral issues, in the community of scholars, in the workforce and as citizens of both Australia and the world
- The engraining of a profound sense of social justice, a commitment to ethical behaviour and an understanding of the role of cultural diversity.



## Master of Commerce

## Master of Commerce (Accounting)

## Master of Commerce (Applied Finance)

## Master of Commerce (Marketing)

## Master of Commerce (Performance Management)

### 1 Duration of program

To qualify for the degree, a candidate shall satisfactorily complete a program of study comprising three semesters of full-time study or equivalent part-time. The maximum time permitted for completion of the program is six years.

### 2 Admission

2.1 An applicant for admission to the academic program for the degree of Master of Commerce, Master of Commerce (Accounting), Master of Commerce (Applied Finance), Master of Commerce (Marketing) or Master of Commerce (Performance Management) shall have qualified for a degree of the University of Adelaide, or a degree of another institution accepted by the Faculty for the purpose as equivalent.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the degree a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the degree.

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

Master of Commerce

Master of Commerce (Accounting)

Master of Commerce (Applied Finance)

Master of Commerce (Marketing)

Master of Commerce (Performance Management).

### 2.4 Status, exemption and credit transfer

2.4.1 No candidate shall be granted status for courses with a total value of more than 12 units on account of courses presented for any other award except with permission of the Faculty.

2.4.2 Substitutions may be granted for up to 12 units of courses where, in the opinion of the Faculty, the candidate has already presented a course/s for another award that contain/s substantially the same material as any of the courses in the program. Substitutions granted must be replaced

by courses from within the same discipline where possible.

### 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Masters degree: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 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 purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

3.3 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially therefrom by the Faculty or nominee, again complete the required work in the course to the satisfaction of the teaching staff concerned.

3.4 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

### 3.5 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 Master of Commerce

4.1.1 To qualify for the degree of Master of Commerce, a candidate shall satisfactorily complete courses to the value of 36 units, as follows:

4.1.2 12 units of Foundation courses.

4.1.3 18 units of Master of Commerce courses, chosen from 4.6.

4.1.4 6 units of electives, chosen from 4.6.2 below. Unless exempted, all international students are required to undertake a specialist course  
 COMMERCE 7041 Business Communications (M). This course may be presented in lieu of an elective.

#### 4.2 Master of Commerce (Accounting)

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

4.2.2 In addition, the Foundation courses presented must include:  
 ACCTING 7019 Accounting Concepts and Methods (M) ..... 3  
 COMMERCE 7005 Principles of Finance (M) ..... 3  
 COMMERCE 7033 Quantitative Methods (M) ..... 3  
 ECON 7200 Economic Principles (M)

4.2.3 18 units of Accounting courses to be chosen from the following courses:

ACCTING 7009 Auditing and Assurance Services (M)\* ..... 3  
 ACCTING 7014 Management Accounting (M) ..... 3  
 ACCTING 7020 Intermediate Financial Reporting (M) ..... 3  
 ACCTING 7023 Advanced Financial Accounting (M) ..... 3  
 COMMERCE 7021 Commercial Law and Information Systems (M) ..... 3  
 COMMLAW 7011 Corporate Law (M) ..... 3  
 COMMLAW 7013 Income Taxation (M)\* ..... 3

*\* All seven courses above must be presented for eligibility to the CA Program, but the two starred courses are not required for eligibility for the CPA Program and can be replaced with electives, of which at least one must be from the list of Accounting courses in 4.6 below or, such courses as approved by the Head of Faculty.*

#### 4.3 Master of Commerce (Applied Finance)

4.3.1 To qualify for the degree of Master of Commerce (Applied Finance), a candidate must satisfy all conditions in 4.1 above.

4.3.2 In addition, the Foundation courses presented must include:  
 ACCTING 7019 Accounting Concepts and Methods (M) ..... 3  
 COMMERCE 7005 Principles of Finance (M) ..... 3  
 COMMERCE 7033 Quantitative Methods (M) ..... 3  
 ECON 7200 Economic Principles (M) ..... 3

4.3.3 18 units of Finance courses, 12 units must include the following core courses:

CORPFIN 7019 Portfolio Theory and Management (M) ..... 3  
 CORPFIN 7020 Options, Futures & Risk Management (M) ..... 3

CORPFIN 7039 Equity Valuation & Analysis (M).... 3  
 CORPFIN 7040 Fixed Income Securities (M) ..... 3  
 6 units to be chosen from 4.6.2 ..... 6

#### 4.4 Master of Commerce (Marketing)

4.4.1 To qualify for the degree of Master of Commerce (Marketing), a candidate must satisfy all conditions in 4.1 above.

4.4.2 In addition, the Foundation courses presented must include:  
 ACCTING 7019 Accounting Concepts and Methods (M) ..... 3  
 COMMERCE 7033 Quantitative Methods (M) ..... 3  
 ECON 7200 Economic Principles (M) ..... 3  
 MARKETNG 7005 Marketing Principles (M) ..... 3

4.4.3 18 units of Marketing courses must include:  
 MARKETNG 7023 Consumer Behaviour (M) ..... 3  
 MARKETNG 7024 International Marketing (M) ..... 3  
 MARKETNG 7025 Marketing Communications (M) ..... 3  
 MARKETNG 7026 Market Research and Planning (M) ..... 3  
 MARKETNG 7030 Marketing Ethics ..... 3  
 MARKETNG 7032 Strategic Marketing (M)\* ..... 3

*\* MARKETNG 7032 Strategic Marketing (M)\* is a capstone course for the M Com (Marketing) pathway, and as such must be taken in the final semester of study.*

#### 4.5 Master of Commerce (Performance Management)

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

4.5.2 In addition 12 units of Foundation courses presented must include:  
 ACCTING 7019 Accounting Concepts and Methods (M) ..... 3  
 COMMERCE 7033 Quantitative Methods (M) ..... 3  
 COMMGMGT 7008 Management Practice (M) ..... 3  
 ECON 7200 Economic Principles (M) ..... 3

4.5.3 18 units of Management courses, 6 units must include the following core courses:  
 COMMGMGT 7006 Organisational Behaviour (M) .. 3  
 COMMGMGT 7007 Strategic Management (M) ..... 3  
 12 units to be chosen from 4.6.2 ..... 12

#### 4.6 Academic program

##### 4.6.1 Foundation Courses

ACCTING 7019 Accounting Concepts and Methods (M) ..... 3  
 COMMERCE 7005 Principles of Finance (M) ..... 3  
 COMMERCE 7033 Quantitative Methods (M) ..... 3  
 COMMERCE 7041 Business Communications (M) ..... 3

COMMGMT 7008 Management Practice (M).....	3
ECON 7200 Economic Principles (M).....	3
MARKETNG 7005 Marketing Principles (M).....	3

#### 4.6.2 Discipline courses

##### Accounting

###### *Specialisation courses*

ACCTING 7009 Auditing and Assurance Services (M).....	3
ACCTING 7012 Commercial Law and Information Systems (M).....	3
ACCTING 7014 Management Accounting (M).....	3
ACCTING 7023 Advanced Financial Accounting (M).....	3
COMMLAW 7011 Corporate Law (M).....	3
COMMLAW 7013 Income Taxation (M).....	3

###### *Advanced Specialisation courses*

ACCTING 7015 Advanced Financial Reporting (M).....	3
ACCTING 7018 Public Sector and Not For Profit Accountability (M).....	3
COMMERCE 7036 Knowledge Management and Measurement (M).....	3
COMMLAW 7016 Business Taxation and GST (M).....	3
CORPFIN 7017 Financial Statement Analysis (M).....	3

##### Applied Finance

CORPFIN 7017 Financial Statement Analysis (M).....	3
CORPFIN 7019 Portfolio Theory and Management (M).....	3
CORPFIN 7020 Options, Futures and Risk Management (M).....	3
CORPFIN 7021 Corporate Investment and Strategy (M).....	3
CORPFIN 7022 Corporate Finance Theory (M).....	3
CORPFIN 7023 Financial Modelling Techniques (M).....	3
CORPFIN 7039 Equity Valuation & Analysis (M).....	3
CORPFIN 7040 Fixed Income Securities (M).....	3
CORPFIN 7042 Treasury and Financial Risk Management (M).....	3
CORPFIN 7045 Wealth Management in China (M).....	3
ECON 7096 Econometrics IIID.....	3
ECON 7201 International Finance (M).....	3
ECON 7114 Money, Banking & Financial Markets IIID.....	3

##### Management

COMMGMT 7006 Organisational Behaviour (M).....	3
COMMGMT 7007 Strategic Management (M).....	3
COMMGMT 7009 Structure and Performance in Organisations (M).....	3
COMMGMT 7010 Optimising Human Performance (M).....	3
COMMGMT 7011 Corporate Governance and Globalisation (M).....	3
COMMGMT 7012 Managing Social Responsibility (M).....	3
COMMGMT 7013 Strategic Evaluation & Control (M).....	3
COMMGMT 7014 Strategic Compensation Management (M).....	3

##### Marketing

###### *Specialisation courses*

MARKETNG 7023 Consumer Behaviour (M).....	3
MARKETNG 7024 International Marketing (M).....	3
MARKETNG 7025 Marketing Communications (M).....	3
MARKETNG 7026 Marketing Research and Planning.....	3
MARKETNG 7030 Marketing Ethics (M).....	3
MARKETNG 7032 Strategic Marketing (M).....	3

###### *Advanced Specialisation courses*

MARKETNG 7027 Brand Management (M).....	3
MARKETNG 7028 E-Marketing (M).....	3
MARKETNG 7033 New Product Development and Innovation (M).....	3
MARKETNG 7031 Relationship Marketing (M).....	3

#### 4.6.3 Electives

BUSINESS 7000 Social Challenges to Global Business.....	3
COMMERCE 7041 Business Communications (M)*.....	3
ECOMMRCE 7004 Internet Commerce (M).....	3
ECON 7011 Consumers, Firms and Markets IID.....	3
ECON 7032 Public Economics IIID.....	3
ECON 7036 International Trade & Investment Policy IID.....	3
ECON 7070 Labour Economics IIID.....	3
ECON 7141 Challenges Facing Economic Policy Makers.....	4

Any other course from a postgraduate or honours program in the Faculty of Professions approved by the Head of Faculty or nominee.

\* Unless exempted, all international students are required to undertake this course.

Note: MBA electives will only be open to students meeting the 2-year professional experience criterion.



#### **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**

### Master of Commerce (Accounting)

- The ability to identify and analyse contemporary thinking and developments within the fields of accounting, auditing, business law and business systems, which are set in the context of the management and governance of organisations that interface with securities markets, governments and societies
- An understanding of the application of accounting methods and techniques and their contribution to financial planning, control, performance measurement and decision-making by management and investors
- Advanced critical and strategic thinking skills, capabilities and competencies in relation to accounting and business analysis issues and problems
- Ability to apply technical and analytical skills, using relevant decision frameworks and empirical research evidence, to address specific accounting and business system problems
- The ability to think creatively and generate innovative solutions by developing a capability in the accounting discipline that can record, analyse, report and interpret complex financial and other corporate information
- Skills in identifying and solving accounting and business analysis problems emerging from strategic developments in practice and regulation
- The ability to adopt multiple perspectives in applying planning, control and evaluation techniques to the operational, financial, and environmental dimensions of an organization and its sub-units
- Ability to communicate ideas effectively in both informal group discussions and formal presentations
- Ability to produce both complex research reports intended for review by academics and/or experts, and management reports intended for decision-making by general managers
- Sound written and oral communication skills, particularly in relation to presenting articulate analyses and arguments
- Proficiency the use of electronic databases, web searching, ethnographical investigative methods, and the preparation of multimedia presentations
- A deep appreciation of continuous change and improvement in organisations and societies
- An understanding of the importance of lifelong learning in fields of accounting, regulatory frameworks, business systems and management
- An awareness of their potential responsibilities as practising members of a professional accounting body
- Ability to take a leadership role in their profession and the wider business community
- A heightened understanding of ethical issues and dilemmas that will be faced as accounting professionals who advise and provide services to clients or managements
- A sensitivity to cultural and social issues, particularly concerned with organisations that operate internationally.

## **Graduate Attributes**

### Master of Commerce (Marketing)

#### **Knowledge**

- An appreciation of basic principles and tools necessary to pursue further studies in the broad field of commerce
- An in-depth understanding of the methods of techniques applied in marketing
- An understanding of the underlying theories and concept that inform alternative perspectives adopted in approaching issues and problems in marketing
- An understanding of the features of professional and regulatory frameworks and institutions relevant to commerce
- An understanding of the trends toward international convergence and divergence between different marketing systems
- An understanding of the political, economic, social and cultural contexts determining different marketing systems
- An understanding of diverse categories of norms and standards in national and international marketing systems and their means of implementation.

#### **Skills**

- High level critical thinking and problem solving skills
- Ability to evaluate and synthesise information and existing knowledge from a number of sources and experiences
- Ability to appreciate the changing knowledge base of the marketing profession and to respond to the demand for change
- Capacity to engage with current issues of significance in commerce and government
- Ability to integrate accounting, finance, marketing and management skills so as to find progressive solutions for challenges of today's businesses and societies
- Capacity to apply marketing theory to respond to demands of the respective practice
- Ability to recognise the limits of the professional discipline and a capacity to identify, develop and apply alternative methods to coincide diverging interests
- Capacity to design and construct a logically compelling management report
- Capacity to participate in teamwork
- High level oral communication skills
- High level written communication skills
- The capacity to engage in life-long learning.

#### **Attitudes and Values**

- A commitment to high levels of academic scholarship
- A commitment to business ethics and an appreciation of social justice through organisations that pursue good governance and conform to legal and professional standards and societies norms
- An appreciation of cultural diversity and sensitivity to the operation of commerce in this context.

## **Graduate Attributes**

### Master of Commerce (Performance Management)

- Specialist understanding of techniques and concepts associated with 'performance management' which draws from a multidisciplinary base to provide a unique concentration on the management and evaluation of performance at the organisational, sub-unit and individual levels
- An appreciation of the potential contribution to organisational management through engagement with, and integration of, the operational and strategic functions of organisations in their business and societal settings
- The skills and discipline to search for, synthesise, organise and present performance information, using a range of methodologies and technologies
- Analytic skills that can argue from both qualitative and quantitative evidence
- The ability to think creatively and generate innovative solutions by developing a perspective in the management discipline that focuses directly on managing organisational performance in its multiple dimensions and from an interdisciplinary base
- The ability to adopt multiple perspectives in applying planning, control and evaluation techniques to the operational, financial, human, social and environmental dimensions of an organization and its sub-units
- Ability to communicate ideas effectively in both informal group discussions and formal presentations
- Ability to produce both complex research reports intended for review by academics and/or experts, and management reports intended for decision-making by general managers
- Proficiency the use of electronic databases, web searching, ethnographical investigative methods, and the preparation of multimedia presentations
- A deep appreciation of continuous change and improvement in organisations and societies
- An understanding of the importance of lifelong learning in fields of business and management
- An awareness of their potential leadership roles in organisations and the wider community
- A heightened understanding of ethical issues in the managing of organisational performance where trade-offs must be made between multiple stakeholders
- Sensitivity to cultural and social issues, particularly concerned with organisations that operate internationally.



# Master of Commerce (Research)

## 1 General

1.1 This document must be read in conjunction with:

- (a) the General Academic Program Rules for Master by Research Programs (see under Adelaide Graduate Centre, p.18) *and*
- (b) the Research Student Handbook, published by the Adelaide Graduate Centre.

These documents explain procedures to be followed and contain guidelines on supervision and research for the degree of Doctor of Philosophy and the various Masters Degrees by Research, offered by the University.

All students must comply with both the General Academic Rules and the rules following below, and procedures outlined in the Research Student Handbook.

In addition to the General Academic Program Rules for Masters by Research degrees, in this publication, the following discipline specific rules apply.

## 2 Admission

2.1 The Research Education and Development Committee may accept as a candidate for the degree of Master of Commerce any person who:

- a has qualified for the degree of Bachelor of Commerce with First or Second-Class Honours at the University of Adelaide *or*
- b has qualified for another Honours degree which the Committee regards as being equivalent to a First or Second-Class Honours degree in Commerce of the University of Adelaide.

## 3 Enrolment

In addition to Rules 9.1 - 9.3 of the General Program Rules, postgraduate students of the Business School are normally expected to attend the majority of research seminars in their field arranged by the School in each year of their candidature.



# Master of Finance and Business Economics

## 1 Duration of program

To qualify for the degree, a candidate shall satisfactorily complete a program of study comprising four semesters of full-time study or equivalent part-time study. The maximum time permitted for completion of the program is eight years.

## 2 Admission

2.1 An applicant for admission to the academic program for the degree of Master of Finance and Business Economics shall have qualified for a degree of the University of Adelaide, or a degree of another institution accepted by the Faculty for the purpose as equivalent.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the degree a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake the degree.

## 2.3 Status, exemption and credit transfer

2.3.1 No candidate shall be granted status for courses with a total value of more than 12 units on account of courses presented for any other award except with permission from the program coordinator.

2.3.2 Exemptions will be granted for up to 12 units of courses where, in the opinion of the program coordinator, the candidate has already presented a course/s for another award that contain(s) substantially the same material as any of the courses in the program. All exemptions granted must be replaced by courses chosen by the candidate from other parts of the program.

2.3.3 A candidate who has completed either the Master of Commerce (Applied Finance) or the Master of Applied Economics at the University of Adelaide and who applies for transfer to the Master of Finance and Business Economics may be granted full credit for the total units completed. A candidate who has been admitted to the Master of Commerce (Applied Finance) or the Master of Applied Economics and who subsequently satisfies the requirements for the Master of Finance and Business Economics must surrender their initial Master degree before being admitted to the award of Master of Finance and Business Economics.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Masters degree: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 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 purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

3.3 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially there from by the program coordinator or nominee, again complete the required work in the course to the satisfaction of the teaching staff concerned.

3.4 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 3.5 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 To qualify for the degree of Masters of Finance & Business Economics, a candidate shall satisfactorily complete courses to the value of 48 units including:

- 4.1.1 12 units of Foundation Courses:
  - ACCTING 7019 Accounting Concepts and Methods (M) ..... 3
  - COMMERCE 7033 Quantitative Methods (M) ..... 3
  - or
  - ECON 7051 Economic and Financial Data Analysis (IID) ..... 3
  - CORPFIN 7005 Principles of Finance (M)..... 3
  - ECON 7200 Economic Principles (M)..... 3
- 4.1.2 12 units of Finance courses:
  - CORPFIN 7019 Portfolio Theory & Management (M) ..... 3
  - CORPFIN 7020 Options, Futures and Risk Management (M) ..... 3
  - CORPFIN 7039 Equity Valuation & Analysis (M).... 3
  - CORPFIN 7040 Fixed Income Securities (M) ..... 3

- 4.1.3 12 units of Economics courses from:  
 ECON 7001 Applied Econometric IIID .....3  
*or*  
 ECON 7096 Econometrics IIID .....3  
 ECON 7011 Consumers, Firms and Markets IID ..3  
 ECON 7071 Macroeconomic Theory  
 and Policy IID .....3  
 ECON 7201 International Finance (M) .....3  
*or*  
 ECON 7036 International Trade and Investment  
 Policy IID .....3
- 4.1.4 6 units of discipline specific courses:  
 A further 6 units of Finance courses from 3.1 *or*  
 a further 6 units of Economics courses from 3.2
- 4.1.5 6 units of electives to be selected from Courses  
 listed in 3.1, 3.2 and 3.3 below, including  
 7041 Business Communication (M). Unless  
 exempted, all international students are required  
 to undertake a specialist course 7041 Business  
 Communications (M). This course may be  
 presented in lieu of an elective.

## 4.2 Academic program

### 4.2.1 Finance

CORPFIN 7017 Financial Statement Analysis (M)....	3
CORPFIN 7021 Corporate Investment & Strategy (M) .....	3
CORPFIN 7022 Corporate Finance Theory (M) .....	3
CORPFIN 7023 Financial Modelling Techniques (M) .....	3
CORPFIN 7042 Treasury and Financial Risk Management (M) .....	3
ECON 7096 Econometrics IIID .....	3
ECON 7114 Money, Banking and Financial Markets IIID .....	3
ECON 7201 International Finance (M).....	3

### 4.2.2 Economics

ECON 7001 Applied Econometrics IIID.....	3
ECON 7011 Consumers, Firms & Markets IID .....	3
ECON 7016 Resource and Environmental Economics IIID .....	3
ECON 7032 Public Economics IIID.....	3
ECON 7036 International Trade and Investment Policy IID.....	3
ECON 7044 International Finance IIID.....	3
ECON 7050 International Economic History IIID ..	3
ECON 7051 Economic and Financial Data Analysis IID.....	3
ECON 7058 Development Economics IIID.....	3
ECON 7062 Strategic Thinking.....	
for Decision Making IIID.....	3

ECON 7071 Macroeconomic Theory and Policy IID .....	3
ECON 7072 International Trade IIID .....	3
ECON 7075 Mathematical Economics IID .....	3
ECON 7096 Econometrics IIID.....	3
ECON 7205 Public Finance IIID .....	3

### 4.2.3 Electives

Any course from a postgraduate or honours program offered by the Faculty of the Professions with approval of/by the Program Director.

Note: MBA electives will only be open to students meeting the 2-year professional experience criterion.

## 4.3 Graduation

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

## 5 Special circumstances

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

## **Graduate Attributes**

### Master of Finance and Business Economics

#### **Knowledge**

- Knowledge and understanding of the content of the fields of finance and business economics at advanced levels that are internationally recognised.

Specifically, the program will:

- The ability to analyse, evaluate and synthesise information from a wide variety of sources and experiences relevant to the fields of finance and business economics
- Knowledge of the key factors involved in economic and financial decision-making processes.

#### **Skills**

- A growth in critical thinking and problem-solving skills with respect to the fields of finance and business economics
- Ability to evaluate and synthesise information and existing knowledge from a number of sources and experiences
- The significant improvement in their ability to take a leadership role in business and in public sector organisations and a commitment to the highest standards of professional endeavour
- Capacity to engage with current issues of significance in commerce and government
- Ability to recognise the limits of the professional discipline and a capacity to identify, develop and apply alternative methods to coincide diverging interests
- Capacity to participate in teamwork
- High level oral communication skills
- High level written communication skills
- The capacity to engage in life-long learning.

#### **Attitudes and Values**

- A commitment to high levels of academic scholarship
- A commitment to business ethics and an appreciation of social justice through organisations that pursue good governance and conform to legal and professional standards and societies norms.





## 1 General

- 1.1 This document must be read in conjunction with:
- a the General Academic Program Rules for Professional Doctorate Degrees (see under Adelaide Graduate Centre p.11) *and*
  - b the Research Student Handbook, published by the Adelaide Graduate Centre.

These documents explain procedures to be followed and contain guidelines on research and supervision for research degrees offered by the University.

All students must comply with both the General Academic Program Rules for Professional Doctorate Degrees and the rules following below, and the policy and procedures outlined in the Research Student Handbook.

In addition to the General Academic Program Rules for Professional Doctorate Degrees in this publication, the following program specific rules apply to the Doctor of Business Administration.

- 2 Academic standing (Rule 2.1 below overrides Rules 4.1-4.5 of the General Academic Program Rules for Professional Doctorate Degrees.)
- 2.1 The academic standing required for acceptance as a candidate for the degree shall be:
- i a coursework business-related degree of Master, plus at least five years of approved relevant work experience *and*
  - ii a relevant Honours degree of Bachelor of at least a IIA Standard or the equivalent introduction to research as approved by the Committee, for example, the University of Adelaide's Master of Business Research.

## 3 Duration of candidature

The normal program duration for the Doctor of Business Administration will be three years of full time equivalent (FTE) study.

## 4 Work for the degree

- 4.1 A doctoral thesis will comprise a conventional written narrative presented as typescript.





# Academic Program Rules

## School of Economics

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### Postgraduate Awards

- Professional Certificate in International Trade
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- Graduate Certificate in Economics
- Graduate Certificate in International Economics
- Graduate Diploma in Applied Economics
- Graduate Diploma in International Economics
- Master of Applied Economics
- Master of Applied Economics (International)
- Master of Applied Economics (Public Policy)
- Master of Economics
- Master of Economics (Coursework)

#### 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.



# Professional Certificate in International Trade

## 1 Duration of Program

To qualify for the Professional Certificate in International Trade, a candidate shall successfully complete a program of study extending not less than two and no more than four semesters delivered in six 1.5 day intensive modules, as well as a final project addressing elements of all these modules.

## 2 Admission

- 2.1 An applicant for admission to the academic program for the Professional Certificate in International Trade shall have completed a Bachelor degree of the University or a degree of another institution accepted by the Faculty as equivalent to a degree of the University.
- 2.2 The Faculty may accept as a candidate for the Professional Certificate in International Trade a person who does not satisfy the requirements of 2.1 above but who presents evidence of work experience appropriate to the area of international trade.

## 2.3 Status, exemption and credit transfer

No credit will be granted towards the Professional Certificate in International Trade.

## 3 Assessment

- 3.1 There shall be four classifications of pass associated with the program leading to the Professional Certificate: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass. Each of the six modules will have an assessment requirement.
- 3.2 A candidate for the Professional Certificate in International Trade shall attend the scheduled module sessions, do written work as may be prescribed and pass examinations in accordance with the provisions of the Academic Program Rules.
- 3.3 A candidate shall not be eligible to attend for examination unless the prescribed work has been successfully completed. A candidate who is not eligible to present for examination or final assessment shall be deemed to have failed the examination/final assessment.
- 3.4 A candidate who fails a course and wishes to repeat the course shall, unless exempted partially therefrom by the Institute for International Trade or nominee, again complete the required work to the satisfaction of the Institute.
- 3.5 A candidate who has failed a course twice may not enrol in that course again.

## 4 Qualification Requirements

- 4.1 To qualify for the award of Professional Certificate in International Trade, a candidate shall successfully complete the following three courses:
- TRADE 5000 International Trade:  
Negotiations & Agreements .....3
- TRADE 5001 International Trade:  
Strategies & Opportunities .....3
- TRADE 5002 Project in International Trade.....0
- Furthermore, students are required to attend scheduled classes as class participation is graded.

## 4.2 Unacceptable combination of courses

No candidate will be permitted to count towards the Professional Certificate in International Trade any previous study or work experience.

## 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.



# Professional Certificate in Public Policy

## 1 Duration of Program

To qualify for the Professional Certificate, a candidate shall satisfactorily complete the equivalent of one semester of part-time study.

## 2 Admission Requirements

- 2.1 An applicant for admission to the academic program for the Professional Certificate in Public Policy shall have qualified for a degree of the University or a degree of another institution accepted by the School as equivalent to a degree of the University. The degree need not contain a major in economics.
- 2.2 The School may accept as a candidate for the Professional Certificate a person who does not satisfy the requirements of 2.1 above but who presents evidence of professional experience appropriate to undertake work for the Professional Certificate.

## 3 Assessment and examinations

- 3.1 There shall be four classifications of pass associated with the program leading to the Professional Certificate: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.
- 3.2
  - 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 purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.
- 3.3 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially there from by the program coordinator or nominee, again complete the required work in the course to the satisfaction of the teaching staff concerned.
- 3.4 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the School and then only under such conditions as may be prescribed.

## 4 Qualification Requirements

- 4.1 To qualify for the degree of Professional Certificate in Public Policy, a candidate shall satisfactorily complete courses to the value of 6 units chosen from:
  - ECON 7016 Resource & Environmental Economics IIID.....3
  - ECON 7044 International Finance IIID.....3

- ECON 7058 Development Economics IIID.....3
- ECON 7050 International Economic History IIID ..3
- ECON 7072 International Trade IIID .....3
- ECON 7114 Money, Banking & Financial Markets IIID .....3
- ECON 7205 Public Finance IIID .....3
- ECON 7210 Climate Change: Mitigation and Adaptation.....3
- ECON 7211 Fiscal Federalism in Australia.....3

## 4.2 Unacceptable combination of courses

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

## 4.3 Graduation

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

## 5 Special circumstances

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

## **Graduate Attributes**

### Professional Certificate in Public Policy

- Knowledge and understanding of the content of economics at advanced levels with particular reference to the design and implementation of government policy
- The ability to analyse, evaluate and synthesise information from a wide variety of sources and experiences relevant to this field
- The capacity for critical thinking and problem-solving skills with respect to the field of policy
- An appreciation of the value of a commitment to maintain intellectual curiosity and to continuous learning in this field
- The ability to take a leadership role in policy-making processes and a commitment to the highest standards of professional endeavour.



# Graduate Certificate in Economics

## 1 Duration of program

To qualify for the Graduate Certificate a candidate shall complete satisfactorily a program of full-time study extending over at least one semester or of part-time study extending over at least two semesters. Except by special permission of the School, a candidate shall take not more than three semesters of full-time study (or part-time equivalent) to complete the requirements of the Certificate.

## 2 Admission

- 2.1 An applicant for admission to the program for the Graduate Certificate shall have qualified for a degree of the University or a degree of another institution accepted by the School for the purpose as equivalent to a degree of this University. The degree need not contain a major in economics.
- 2.2 Subject to the approval of the Council, the School may, in special cases and subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the Graduate Certificate a person who does not hold a degree of a tertiary institution but has given evidence satisfactory to the School of fitness to undertake work for the Graduate Certificate.
- 2.3 The School may require an applicant to complete such additional preliminary work as it may prescribe before he or she is accepted as a candidate for the Graduate Certificate.
- 2.4 A knowledge of SACE Stage 2 Mathematical Studies or equivalent is assumed.
- 2.5 **Status, exemption and credit transfer**
  - 2.5.1 A candidate who has passed courses in other educational institutions and who has not presented these courses towards an award may, on written application to the Head be granted such exemption from the requirements of these rules as the School shall determine. Status may be granted for a maximum of 3 units under 4.1 of the Program Rules.
  - 2.5.2 No candidate will be permitted to count for the Graduate Certificate in Economics any course that in the opinion of the School contains substantially the same material as any other course which has been presented already for another qualification.
- 2.6 **Articulation with other awards**

Candidates intending to continue on to a Graduate Diploma or Masters degree are advised strongly to consult the course requirements for those programs to ensure they complete the compulsory courses satisfactorily.

## 3 Assessment and examinations

- 3.1 There shall be four classifications of pass in the final assessment of any course for the Graduate Certificate as follows: Pass with High Distinction, Pass with Distinction, Pass with Credit, Pass.
- 3.2 A candidate for the Graduate Certificate in Economics shall attend regularly lectures and tutorials, do written work as may be prescribed, and pass examinations in accordance with the provisions of the Program Rules.
- 3.3
  - 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. A candidate who is not eligible to present for examination or final assessment shall be deemed to have failed the examination/final assessment.
  - b A candidate who fails a course and wishes to repeat the course shall again attend lectures and satisfactorily do such written and practical work as the lecturer concerned may prescribe.
  - c A candidate who has twice failed the examination in any course for the Graduate Certificate or for any other course which in the opinion of the School contains a substantial amount of the same material, may not enrol for that course except by permission of the School and then only under such conditions as School may prescribe.

## 3.4 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

To qualify for the Graduate Certificate in Economics a candidate shall satisfactorily complete the following:

### 4.1 Academic program

- 4.1.1 Four one-semester courses (a minimum of twelve units) which shall comprise lectures and tutorials in any of the following courses not previously completed.
  - ECON 7001 Topics in Applied Econometrics IIID\*...3
  - ECON 7011 Intermediate Microeconomics IID.....3



ECON 7016 Resource & Environmental Economics IIID.....	3
ECON 7022 Econometric Theory IIID* .....	3
ECON 7032 Public Economics IIID.....	3
ECON 7036 International Trade and Investment Policy IID .....	3
ECON 7044 International Finance IIID.....	3
ECON 7050 International Economic History IIID .	3
ECON 7051 Intermediate Econometrics IID* .....	3
ECON 7052 East Asian Economies IID .....	3
ECON 7058 Development Economics IIID.....	3
ECON 7062 Strategic Thinking IIID .....	3
ECON 7071 Intermediate Macroeconomics IID ...	3
ECON 7072 International Trade IIID .....	3
ECON 7075 Mathematical Economics IID* .....	3
ECON 7076 Australian Economic History IID*.....	3
ECON 7096 Economic Theory IIID .....	3
ECON 7114 Money, Banking & Financial Markets IIID .....	3
ECON 7205 Public Finance IIID .....	3
ECON 7215 Time Series Econometrics IIID.....	3

\* *Students are reminded that some mathematical and statistical background is desirable for these courses.*

*Note: Level IIID courses involve work and assessment in addition to that which is required in Level III courses.*

*Check with the School of Economics for course availability each year.*

- 4.1.2 A candidate may, with the permission of the Head of School, substitute one 3-unit course drawn from 4.2 of the Academic Program Rules of the Graduate Diploma in Advanced Economics in place of a 3-unit course towards the Certificate.
- 4.2 The number of courses to be offered in any semester will be dependent upon staff availability and student demand.
- 4.3 In special circumstances, candidates may be given permission to substitute another course for courses specified in 4.1 above.
- 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.

#### 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 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 Certificate in International Economics

## 1 Duration of Program

A candidate for the Graduate Certificate shall complete satisfactorily a program of full-time study extending over at least one semester or of part-time study extending over at least two semesters. Except by special permission of the School, a candidate shall take not more than three semesters of full-time study (or part-time equivalent) to complete the requirements of the Certificate.

## 2 Admission

2.1 An applicant for admission to the program for the Graduate Certificate shall have qualified for a degree of the University or a degree of another institution accepted by the School for the purpose as equivalent to a degree of this University. The degree need not contain a major in economics.

2.2 Subject to the approval of the Council, the School may, in special cases and subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the Graduate Certificate a person who does not hold a degree of a tertiary institution but has given evidence satisfactory to the School of fitness to undertake work for the Graduate Certificate.

2.3 The School may require an applicant to complete such additional preliminary work as it may prescribe before he or she is accepted as a candidate for the Graduate Certificate.

2.4 A knowledge of SACE Stage 2 Mathematical Studies or its equivalent is assumed.

### 2.5 Status, exemption and credit transfer

2.5.1 A candidate who has passed courses in other educational institutions and who has not presented these courses towards an award may, on written application to the Head be granted such exemption from the requirements of these rules as the School shall determine. Status may be granted for a maximum of 3 units under 4.2 of the Academic Program Rules.

2.5.2 No candidate will be permitted to count for the Graduate Certificate in International Economics any course that in the opinion of the School contains substantially the same material as any other course which he or she has presented already for another qualification.

### 2.6 Articulation with other awards

Candidates intending to continue on to a Graduate Diploma or Masters degree are advised strongly to consult the course requirements for those programs to ensure they complete the compulsory courses satisfactorily.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in the final assessment of any course for the Graduate Certificate as follows: Pass with High Distinction, Pass with Distinction, Pass with Credit, Pass.

3.2 A candidate for the Graduate Certificate in International Economics shall attend regularly lectures and tutorials, do written work as may be prescribed, and pass examinations in accordance with the provisions of the Academic Program Rules of the Certificate.

3.3 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. A candidate who is not eligible to present for examination or final assessment shall be deemed to have failed the examination/final assessment.

b A candidate who fails a course and wishes to repeat the course shall again attend lectures and tutorials and satisfactorily do such written and practical work as the lecturer concerned may prescribe.

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

### 3.4 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 Graduate Certificate in International Economics the candidate shall satisfactorily complete four one-semester courses (a minimum of twelve units) which shall comprise the following:

a at least one of the following International Economics courses (or their equivalent):

ECON 7036 International Trade and Investment Policy IID.....	3
ECON 7044 International Finance IIID.....	3
ECON 7072 International Trade IIID .....	3
b at least three of the following courses not previously or otherwise completed (9 units):	
ECON 7001 Topics in Applied Econometrics IIID* .....	3
ECON 7011 Intermediate Microeconomics IID .....	3
ECON 7016 Resource & Environmental Economics IIID .....	3
ECON 7022 Econometric Theory IIID* .....	3
ECON 7032 Public Economics IIID .....	3
ECON 7036 International Trade and Investment Policy IID.....	3
ECON 7044 International Finance IIID.....	3
ECON 7050 International Economic History IIID .....	3
ECON 7051 Intermediate Econometrics IID* .....	3
ECON 7052 East Asian Economies IID.....	3
ECON 7058 Development Economics IIID .....	3
ECON 7062 Strategic Thinking IIID .....	3
ECON 7071 Intermediate Macroeconomics IID .....	3
ECON 7072 International Trade IIID .....	3
ECON 7076 Australian Economic History IID** .....	3
ECON 7096 Economic Theory IIID.....	3
ECON 7114 Money, Banking & Financial Markets IIID .....	3
ECON 7205 Public Finance IIID .....	3
ECON 7215 Time Series Econometrics IIID.....	3

\* students are reminded that some mathematical and statistical background is desirable for these courses.

- c A candidate may, with the permission of the Head of School substitute one 3-unit course drawn from 4.2 of the Academic Program Rules of the Graduate Diploma in Advanced Economics in place of a 3-unit course towards the Certificate.

Note: Level IIID courses involve work and assessment in addition to that which is required in Level III courses.

Check with the School of Economics for course availability each year.

- 4.2 The number of courses to be offered in any semester will be dependent upon staff availability and student demand.
- 4.3 In special circumstances, candidates may be given permission to substitute another course for courses specified in 4.1 above.

- 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.

#### 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 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**

Graduate Certificate in Economics

Graduate Certificate in International Economics

### **Program Objectives**

- To provide students with analytical and econometric skills that will provide an understanding of economic policy issues for holders of a Bachelors degree in a field other than economics.

### **Graduate Attributes**

- Explain and evaluate the use of economic theory and basic econometric methods in the analysis of economic policies contained in government publications by the Central Bank, Departments of Treasury and Finance or the ACCC and other similar regulatory bodies.

### **Generic Skills**

- The ability to interpret the results of an econometric analysis of economic data
- Apply the analytical skills obtained to provide precise written and oral reports.

## 1 Duration of program

To qualify for the Graduate Diploma a candidate shall complete satisfactorily a program of full-time study extending over at least two semesters or of part-time study extending over at least four semesters. Except by special permission of the School, a candidate shall take not more than six semesters of full-time study (or part-time equivalent) to complete the requirements of the Diploma.

## 2 Admission

- 2.1 An applicant for admission to the program for the Graduate Diploma shall have qualified for a degree of the University or a degree of another institution accepted by the School for the purpose as equivalent to a degree of this University and have obtained the approval of the School of Economics. The degree need not contain a major in Economics.
- 2.2 Subject to the approval of the Council the School may, in special cases and subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the Graduate Diploma a person who does not hold a degree of a tertiary institution but has given evidence satisfactory to the School of fitness to undertake work for the Graduate Diploma. Normally this would involve completing satisfactorily the requirements for the Graduate Certificate in Economics.
- 2.3 A knowledge of SACE Stage 2 Mathematical Studies or equivalent is assumed.

### 2.4 Status, exemption and credit transfer

- 2.4.1 A candidate who has passed courses in other educational institutions and who has not presented these courses towards an award may, on written application to the Head, be granted such exemption from the requirements of these regulations as the School shall determine. Status may be granted for a maximum of 6 units under 4.1 of the Academic Program Rules.
- 2.4.2 No candidate will be permitted to count for the Graduate Diploma in Applied Economics any course that in the opinion of the School contains substantially the same material as any other course which he or she has presented already for another qualification, other than for the Graduate Certificate in Economics or International Economics and then only upon its surrender.

## 2.5 Articulation with other awards

- 2.5.1 A candidate holding a Graduate Certificate in Economics or International Economics may count courses passed in the Graduate Certificate toward the Graduate Diploma upon surrender of the Graduate Certificate.
- 2.5.2 Candidates intending to continue on to a Masters degree are advised strongly to consult the course requirements for such programs to ensure they complete the compulsory courses satisfactorily.
- 2.5.3 Candidates currently enrolled in the Graduate Diploma in Economics will proceed under the regulations and schedules in force at the date of enrolment.

## 3 Assessment and examinations

- 3.1 There shall be four classifications of pass in the final assessment of any course for the Graduate Diploma as follows: Pass with High Distinction, Pass with Distinction, Pass with Credit, Pass.
- 3.2 A candidate for the Graduate Diploma in Applied Economics shall attend regularly lectures and tutorials, do written work as may be prescribed, and pass examinations in accordance with the provisions of these Academic Program Rules.
- 3.3
  - 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. A candidate who is not eligible to present for examination or final assessment shall be deemed to have failed the examination/final assessment.
  - b A candidate who fails a course and wishes to repeat the course shall again attend lectures and satisfactorily do such written and practical work as the lecturer concerned may prescribe.
  - c A candidate who has failed twice the examination in any course or division of 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.

### 3.4 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 Graduate Diploma in Applied Economics the candidate shall complete satisfactorily eight semester courses (a minimum of 24 units) which shall comprise lectures and tutorials in the following:

- 4.1.1 a the following two compulsory core courses (6 units):
- ECON 7011 Intermediate Microeconomics IID .....3
  - ECON 7071 Intermediate Macroeconomic IID..3
- b one of the following quantitative courses:
- ECON 7001 Topics in Applied Econometrics IIID\* .....3
  - ECON 7022 Econometric Theory IIID\*.....3
  - ECON 7051 Intermediate Econometrics IIID\* .3
  - ECON 7075 Mathematical Economics IIID\* ....3
- c at least five courses not previously or otherwise completed (15 units) chosen from the following list, of which at least three courses (9 units) must be IIID courses:
- ECON 7001 Topics in Applied Econometrics IIID\* .....3
  - ECON 7016 Resource & Environmental Economics IIID .....3
  - ECON 7022 Econometric Theory IIID\*.....3
  - ECON 7032 Public Economics IIID .....3
  - ECON 7036 International Trade and Investment Policy IID..... 3
  - ECON 7044 International Finance IIID.....3
  - ECON 7050 International Economic History IIID.....3
  - ECON 7052 East Asian Economies IID .....3
  - ECON 7058 Development Economics IIID .....3
  - ECON 7062 Strategic Thinking IIID .....3
  - ECON 7072 International Trade IIID .....3
  - ECON 7075 Mathematical Economics IIID\* ....3
  - ECON 7076 Australian Economic History IID\*\* .....3
  - ECON 7096 Economic Theory IIID# .....3
  - ECON 7114 Money, Banking and Financial Markets IIID .....3
  - ECON 7205 Public Finance IIID.....3
  - ECON 7215 Time Series Econometrics IIID..... 3

\* these courses are available for students with some mathematical and statistical background.

# highly recommended.

Note: Level IIID courses involve work and assessment in addition to that which is required in Level III courses.

Check with the School of Economics for course availability each year.

d a candidate may substitute one or more 4 unit course drawn from 6.2.4 of the Academic Program Rules of the Master of Applied Economics in place of a 3-unit course towards the Diploma.

- 4.2 The number of courses to be offered in any semester will be dependent upon staff availability and student demand.
- 4.3 In special circumstances, candidates may be given permission to substitute another course for courses specified in 4.1 above.
- 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.

### 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 Special circumstances

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

## 1 Duration of Program

To qualify for the Graduate Diploma a candidate shall complete satisfactorily a program of full-time study extending over at least two semesters or of part-time study extending over at least four semesters. Except by special permission of the School, a candidate shall take not more than six semesters of full-time study (or part-time equivalent) to complete the requirements of the Diploma.

## 2 Admission

- 2.1 An applicant for admission to the program for the Graduate Diploma shall have qualified for a degree of the University or a degree of another institution accepted by the School for the purpose as equivalent to a degree of this University. The degree need not contain a major in Economics.
- 2.2 The School may, in special cases and subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the Graduate Diploma a person who does not hold a degree of a tertiary institution but has given evidence satisfactory to the School of fitness to undertake work for the Graduate Diploma. Normally that would involve completing satisfactorily the requirements for the Graduate Certificate in Economics or Graduate Certificate in International Economics.
- 2.3 A knowledge of SACE Stage 2 Mathematical Studies or its equivalent is assumed.
- 2.4 **Status, exemption and credit transfer**
  - 2.4.1 A candidate who has passed courses in other educational institutions and who has not presented these courses towards an award may, on written application to the Head, be granted such exemption from the requirements of these regulations as the School shall determine. Status may be granted for a maximum of 6 units under 4.1 of the Academic Program Rules.
  - 2.4.2 No candidate will be permitted to count for the Graduate Diploma in International Economics any course that in the opinion of the School contains substantially the same material as any other course which he or she has presented already for another qualification, other than for the Graduate Certificate in International Economics and then only upon its surrender.
- 2.5 **Articulation with other awards**
  - 2.5.1 A candidate holding a Graduate Certificate in Economics or International Economics may count courses passed in the Graduate Certificate toward the Graduate Diploma upon surrender of the Graduate Certificate.

- 2.5.2 Candidates intending to continue on to a Masters degree are advised strongly to consult the course requirements for such programs to ensure they complete the compulsory courses satisfactorily.

- 2.5.3 Candidates currently enrolled in the Graduate Diploma in Economics will proceed under the regulations and schedules in force at the date of enrolment.

## 3 Assessment and examinations

- 3.1 There shall be four classifications of pass in the final assessment of any course for the Graduate Diploma as follows: Pass with High Distinction, Pass with Distinction, Pass with Credit, Pass.
- 3.2 A candidate for the Graduate Diploma in International Economics shall attend regularly lectures and tutorials, do written work as may be prescribed, and pass examinations in accordance with the provisions of these Program Rules of the Diploma.
- 3.3
  - 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. A candidate who is not eligible to present for examination or final assessment shall be deemed to have failed the examination/final assessment.
  - b A candidate who fails a course and wishes to repeat the course shall again attend lectures and tutorials and satisfactorily do such written and practical work as the lecturer concerned may prescribe.
  - c A candidate who has failed twice the examination in any course or division of 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.

## 3.4 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 Graduate Diploma in International Economics the candidate shall complete satisfactorily eight semester courses (a minimum of 24 units) which shall comprise the following:

- 4.1.1 a at least two of the following International Economics courses or their equivalents (6 units):
- ECON 7036 International Trade and Investment Policy IID.....3
  - ECON 7044 International Finance IIID.....3
  - ECON 7072 International Trade IIID .....3
- b ECON 7011 Intermediate Microeconomics IID<sup>+</sup> .....3  
+ or equivalent.
- c at least one of the following quantitative courses or their equivalents (3 units):
- ECON 7001 Topics in Applied Econometrics IIID\* .....3
  - ECON 7022 Econometric Theory IIID\* .....3
  - ECON 7051 Intermediate Econometrics IIID\* ....3
- d at least four of the following courses not previously or otherwise completed (a minimum 12 units):
- ECON 7001 Topics in Applied Econometrics IIID\* .....3
  - ECON 7016 Resource & Environmental Economics IIID .....3
  - ECON 7022 Econometric Theory IIID\* .....3
  - ECON 7032 Public Economics IIID .....3
  - ECON 7036 International Trade and Investment Policy IID..... 3
  - ECON 7044 International Finance IIID.....3
  - ECON 7050 International Economic History III D.....3
  - ECON 7052 East Asian Economies IID .....3
  - ECON 7058 Development Economics IIID .....3
  - ECON 7062 Strategic Thinking IIID .....3
  - ECON 7071 Intermediate Macroeconomics IID .....3
  - ECON 7072 International Trade IIID .....3
  - ECON 7076 Australian Economic History IID\*\* .....3
  - ECON 7096 Economic Theory IIID<sup>#</sup> .....3
  - ECON 7114 Money, Banking and Financial Markets IIID .....3
  - ECON 7205 Public Finance IIID .....3
  - ECON 7215 Time Series Econometrics IIID....3

\* these courses are available for students with some mathematical and statistical background.

# highly recommended.

- e a candidate may substitute one or more 4 unit courses drawn from 6.2.4 of the Academic Program Rules of the Master of Applied Economics in place of a 3-unit course in the Diploma.

Note: Level IIID courses involve work and assessment in addition to that which is required in Level III courses.

Check with the School of Economics for course availability each year.

- 4.2 The number of courses to be offered in any semester will be dependent upon staff availability and student demand.
- 4.3 In special circumstances, candidates may be given permission to substitute another course for courses specified in 4.1 above.
- 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.

### 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 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**

Graduate Diploma in Economics

Graduate Diploma in Advanced Economics

Graduate Diploma in Applied Economics

Graduate Diploma in International Economics

### **Program Objectives**

- To provide students with analytical and econometric skills that will provide an understanding of economic policy issues for holders of a Bachelors degree in a field other than economics.

### **Graduate Attributes**

- Explain and critically evaluate the use of economic theory and basic econometric methods in the analysis of economic policies contained in government publications by the Central Bank, Departments of Treasury and Finance or the ACCC and other similar regulatory bodies.

### **Generic Skills**

- Mastery of Excel or equivalent software for basic econometric analysis
- Apply the analytical skills obtained to provide precise written and oral reports



# Master of Applied Economics

## 1 General

Each candidate will be required to undertake during university vacations such studies as may be prescribed.

## 2 Duration of program

- 2.1
- a Except by special permission of the School, the work of the degree for a full-time candidate shall be completed in not less than two semesters and not more than six semesters from the date of candidature accepted by the School.
  - b Except by special permission of the School, the work of the degree for a part-time candidate shall be completed in not less than four semesters and not more than twelve semesters from the date of candidature accepted by the School.

## 3 Admission

- 3.1 The School may accept as a candidate for the degree any graduate who:
- a has qualified for the degree Bachelor of Economics of the University of Adelaide at an average equivalent to a credit or better *or*
  - b has qualified for a degree of another university at an average equivalent to a credit or better, which degree the School regards as being equivalent to the degree Bachelor of Economics of the University of Adelaide *or*
  - c has qualified for a joint degree in Economics of the University of Adelaide or its equivalent from another university, supplemented by the satisfactory completion of bridging coursework as the School may deem necessary (courses to be specified by the Head of School or nominee) *or*
  - d has qualified for a degree of the University of Adelaide or a degree of another institution accepted by the School for the purpose as equivalent to a degree of this University at an average equivalent to a credit or better and has obtained the approval of the School. The degree need not contain a major in Economics but must be supplemented by the satisfactory completion of bridging coursework as the School may deem necessary (courses to be specified by the Head of School or nominee) *or*
  - e has qualified for the Graduate Certificates in Economics or International Economics, or the Graduate Diplomas in Applied or International Economics of the University of Adelaide or their equivalent from another university.

- 3.2 The School may, in special cases and subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the degree a person who, irrespective of whether or not the candidate is a university graduate, has given evidence satisfactory to the School of fitness to undertake work for the degree.

## 3.3 Status, exemption and credit transfer

A candidate who has completed a Bachelor degree which includes a major in economics, or the Graduate Certificate in Economics or International Economics, or the Graduate Diploma in Applied Economics or International Economics, may be granted status in up to 12 units, as part of the qualification requirements as specified in 6.1.3, towards the degree.

## 4 Enrolment

A candidate's program of study must be approved by the Head of the School (or nominee) at enrolment each year.

## 5 Assessment and examinations

- 5.1 Students undertaking the dissertation option as specified in 6.1.6 shall lodge with the School three copies of the dissertation or project prepared in accordance with the directions given to candidates by the School.
- 5.2 Results of those who pass in any of the courses shall be published within the following classifications: High Distinction, Distinction, Credit, Pass.
- 5.3
- 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. A candidate who is not eligible to present for examination or final assessment shall be deemed to have failed the examination/final assessment.
  - b A candidate who fails a course and wishes to repeat the course shall again attend lectures and tutorials and satisfactorily do such written and practical work as the lecturer concerned may prescribe.
  - c A candidate who has failed twice the examination in any course or division of 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.

## 5.4 Academic progress

A candidate's progress shall be reviewed by the School at the end of each year. If in the opinion of the School, a candidate is not making satisfactory progress the School may, with the consent of the Council, withdraw its approval of the candidature and the candidate shall cease to be enrolled for the degree.

## 6 Qualification requirements

### 6.1 Academic Program

To qualify for the degree of Master of Applied Economics, the candidate shall complete satisfactorily a program of study which shall consist of courses as follows, with a combined total of not less than 36 units:

6.1.1	ECON 7096 Economic Theory IIID .....	3
	ECON 7141 Challenges Facing Economic Policy Makers .....	4
6.1.2	One of the following quantitative courses:	
	ECON 7001 Topics in Applied Econometrics IIID... 3	
	ECON 7022 Econometric Theory IIID.....	3
6.1.3	Two elective courses not previously or otherwise completed (6 units) to be chosen from the following list:	
	ECON 7001 Topics in Applied Econometrics IIID... 3	
	ECON 7016 Resource & Environmental Economics IIID.....	3
	ECON 7022 Econometric Theory IIID.....	3
	ECON 7032 Public Economics IIID .....	3
	ECON 7044 International Finance IIID .....	3
	ECON 7050 International Economic History IIID ..	3
	ECON 7058 Development Economics IIID .....	3
	ECON 7062 Strategic Thinking IIID .....	3
	ECON 7072 International Trade IIID .....	3
	ECON 7114 Money, Banking and Financial Markets IIID .....	3
	ECON 7205 Public Finance IIID .....	3
	ECON 7215 Time Series Econometrics IIID.....	3
	Note: Level IIID courses involve work and assessment in addition to that which is required in Level III courses.	
6.1.4	Two elective courses not previously or otherwise completed (8 units) to be chosen from the following list:	
	ECON 7009 Mathematical Economics (H) .....	4
	ECON 7025 Microeconomics A (H)# .....	4
	ECON 7055 International Trade (H) .....	4
	ECON 7056 International Finance (H) .....	4
	ECON 7059 Macroeconomics A (H) # .....	4
	ECON 7065 Public Economics (H) .....	4

ECON 7077 Economic Development (H) .....	4
ECON 7203 Econometrics (H) .....	4

# These courses are requisites for students intending to transfer to the M.Ec. (Cswk) program

Note: The precise number of courses to be offered in any one year will be depend upon staff availability and student demand, and subject to such quotas as may need to be imposed.

6.1.5	Either	
	any combination of additional courses from 6.1.3 or 6.1.4 to the value of at least 12 units	
	or	
	ECON 7084 Master of Applied Economics Dissertation.....	12
	or	
	ECON 7206 Master of Applied Economics Dissertation.....	9
	ECON 7209 Master of Applied Economics Dissertation .....	8
	ECON 7129 A/B Master of Applied Economics Dissertation (Part-time) .....	12
6.2	Candidates are permitted to substitute an approved non-Economics course for courses listed in 6.1.3 to the value of 3 units.	
6.3	Candidates are permitted to substitute an approved non-Economics course for courses listed in 6.1.3 to the value of 6 units, if undertaking the 'additional courses' option specified in 6.1.6.	
	Note: The maximum number of approved non-Economics courses that may be taken towards the program is 6 units.	
6.4	In special circumstances, candidates may be given permission to substitute another course for courses listed in 6.1.1, 6.1.2, 6.1.3 and 6.1.4 above.	
6.5	No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty concerned, contains a substantial amount of the same material; and no course or portion of a course may be counted twice towards an award.	
6.6	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.	
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.	



# Master of Applied Economics (International)

## 1 General

Each candidate will be required to undertake during university vacations such studies as may be prescribed.

## 2 Duration of program

- 2.1
- a Except by special permission of the School, the work of the degree for a full-time candidate shall be completed in not less than two semesters and not more than six semesters from the date of candidature accepted by the School.
  - b Except by special permission of the School, the work of the degree for a part-time candidate shall be completed in not less than four semesters and not more than twelve semesters from the date of candidature accepted by the School.

## 3 Admission

- 3.1 The School may accept as a candidate for the degree any graduate who:
- a has qualified for the degree Bachelor of Economics of the University of Adelaide at an average equivalent to a credit or better *or*
  - b has qualified for a degree of another university at an average equivalent to a credit or better, which degree the School regards as being equivalent to the degree of Bachelor of Economics of the University of Adelaide *or*
  - c has qualified for a joint degree in Economics of the University of Adelaide or its equivalent from another university, supplemented by the satisfactory completion of bridging coursework as the School may deem necessary (courses to be specified by the Head of School or nominee *or*
  - d has qualified for a degree of the University of Adelaide or a degree of another institution accepted by the School for the purpose as equivalent to a degree of this University at an average equivalent to a credit or better and has obtained the approval of the School. The degree need not contain a major in Economics but must be supplemented by the satisfactory completion of bridging coursework as the School may deem necessary (courses to be specified by the Head of School or nominee) *or*
  - e has qualified for the Graduate Certificates In Economics or International Economics, or the Graduate Diplomas in Applied or International Economics of the University of Adelaide or their equivalent from another university.

- 3.2 The School may, in special cases and subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the degree a person who, irrespective of whether or not the candidate is a university graduate, has given evidence satisfactory to the School of fitness to undertake work for the degree.

## 3.3 Status, exemption and credit transfer

A candidate who has completed a Bachelor's degree which includes a major in economics, or the Graduate Certificate in Economics or International Economics, or the Graduate Diploma in Applied Economics or International Economics, may be granted status in up to 12 units, as part of the qualification requirements specified in 6.1.2, towards the degree. A candidate who has completed the Professional Certificate in International Trade may be granted status up to 6 units, as part of the qualification requirements specified in 6.3 towards the degree upon the surrender of the Professional Certificate. Results obtained in these courses must be of a standard deemed acceptable by the Head of the School for the purposes of granting status.

## 4 Enrolment

A candidate's program of study must be approved by the Head (or nominee) at enrolment each year.

## 5 Assessment and examinations

- 5.1 Students undertaking the dissertation option as specified in 6.1.5 shall lodge with the School three copies of the thesis or dissertation prepared in accordance with the directions given to candidates by the School.
- 5.2 Results of those who pass in any of the courses shall be published within the following classifications: High Distinction, Distinction, Credit, Pass.
- 5.3
- 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. A candidate who is not eligible to present for examination or final assessment shall be deemed to have failed the examination/final assessment.
  - b a candidate who fails a course and wishes to repeat the course shall again attend lectures and tutorials and satisfactorily do such written and practical work as the lecturer concerned may prescribe.
  - c a candidate who has failed twice the examination in any course or division of 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.

## 5.4 Academic progress

A candidate's progress shall be reviewed by the School at the end of each year. If in the opinion of the School a candidate is not making satisfactory progress the School may, with the consent of the Council, withdraw its approval of the candidature and the candidate shall cease to be enrolled for the degree.

## 6 Qualification requirements

### 6.1 Academic Program

To qualify for the degree of Master of Applied Economics (International), the candidate shall complete satisfactorily a program of study which shall consist of courses as follows, with a combined total of not less than 36 units:

#### 6.1.1 *Either*

ECON 7055 International Trade (H) .....4

*and*

ECON 7072 International Trade IIID .....3

*or*

ECON 7044 International Finance IIID.....3

*and*

ECON 7056 International Finance (H).....4

#### 6.1.2 Three elective course not previously or otherwise completed (9 units) to be chosen from the following list

ECON 7001 Topics in Applied Econometrics IIID\* .....3

ECON 7016 Resource & Environmental Economics IIID.....3

ECON 7022 Econometric Theory IIID\* .....3

ECON 7032 Public Economics IIID .....3

ECON 7044 International Finance IIID .....3

ECON 7050 International Economic History IIID .3

ECON 7058 Development Economics IIID .....3

ECON 7062 Strategic Thinking IIID .....3

ECON 7072 International Trade IIID .....3

ECON 7096 Economic Theory IIID\* .....3

ECON 7114 Money, Banking and Financial Markets IIID .....3

ECON 7205 Public Finance IIID .....3

ECON 7215 Time Series Econometrics IIID.....3

TRADE 5000 International Trade: Negotiations & Agreements<sup>+</sup> .....3

TRADE 5001 International Trade: Strategies & Opportunities<sup>+</sup> .....3

#### 6.1.3 One elective course not previously or otherwise completed (4 units) to be chosen from the following list:

ECON 7009 Mathematical Economics (H) .....4

ECON 7025 Microeconomics A (H)<sup>#</sup> .....4

ECON 7055 International Trade (H) .....4

ECON 7056 International Finance (H) .....4

ECON 7059 Macroeconomics A (H)<sup>#</sup> .....4

ECON 7065 Public Economics (H) .....4

ECON 7077 Economic Development (H) .....4

ECON 7104 Labour Economics (H)\* .....4

ECON 7203 Econometrics (H) .....4

#### 6.1.4 The following compulsory course:

ECON 7141 Challenges Facing Economic Policy Makers .....4

\* Students are encouraged to take Economic Theory IIID and at least one Econometrics course..

<sup>#</sup>These courses are requisites for students intending to transfer to the M.Ec. (Cswk) program.

<sup>+</sup>Only 3 units of TRADE courses may be counted towards the degree.

Note: Level IIID courses involve work and assessment in addition to that which is required in Level III courses.

The precise number of courses to be offered in any one year will be depend upon staff availability and student demand, and subject to such quotas as may need to be imposed.

#### 6.1.5 *Either*

any combination of additional courses from 6.1.2 or 6.1.3 to the value of at least 12 units

*or*

ECON 7126 Master of Applied Economics (International) Dissertation ..... 12

ECON 7127 A/B Master of Applied Economics (International) Dissertation (Part-time)..... 12

ECON 7207 Master of Applied Economics (International) Dissertation .....8

ECON 7208 Master of Applied Economics (International) Dissertation .....9

#### 6.2 Candidates are permitted to substitute an approved non-Economics course for courses listed in 6.1.2 to the value of 3 units.

#### 6.3 Candidates are permitted to substitute an approved non-Economics course for courses listed in 6.1.2 to the value of 6 units, if undertaking the 'additional courses' option specified in 6.1.5.

Note: The maximum number of approved non-Economics courses that may be taken towards the program is 6 units.

#### 6.4 With the approval of the Head of School, students undertaking the additional courses option as specified in 6.1.3, may take up to 6 units of approved non-Economic postgraduate courses.

#### 6.5 In special circumstances, candidates may be given permission to substitute another course for courses listed in 6.1.1, 6.1.2 and 6.1.3 above.

#### 6.6 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.

## **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.

## 1 Duration of Program

To qualify for the degree, a candidate shall satisfactorily complete a program of study comprising three semesters of full-time study or equivalent part-time study. Except by special permission of the School, the maximum time permitted for completion of the program is not more than six semesters from the date of candidature accepted by the School.

## 2 Admission

2.1 An applicant for admission to the academic program for the degree of Master of Applied Economics (Public Policy) shall have qualified for:

- a Bachelor of Economics at the University of Adelaide, or another institution accepted by the University for the purpose as equivalent *or*
- b Graduate Certificate in Economics or International Economics of the University of Adelaide.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the degree a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake the degree.

### 2.3 Status, exemption and credit transfer

2.3.1 No candidate shall be granted status for courses with a total value of more than 12 units on account of courses presented for any other award except with permission from the program coordinator.

2.3.2 Exemptions will be granted for up to 12 units of courses where, in the opinion of the program coordinator, the candidate has already presented a course/s for another award that contain(s) substantially the same material as any of the courses in the program. All exemptions granted must be replaced by courses chosen by the candidate from other parts of the program.

2.3.3 A candidate who has completed the Master of Applied Economics at the University of Adelaide and who applies for transfer to the Master of Applied Economics (Public Policy) may be granted full credit for the total units completed. A candidate who has been admitted to the Master of Applied Economics and who subsequently satisfies the requirements for the Master of Applied Economics (Public Policy) must surrender their initial Masters degree before being admitted to the award of Master of Applied Economics (Public Policy).

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Masters degree: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

- 3.2 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 purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

3.3 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially there from by the program coordinator or nominee, again complete the required work in the course to the satisfaction of the teaching staff concerned.

3.4 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the School and then only under such conditions as may be prescribed.

## 4. Qualification Requirements

To qualify for the degree of Masters of Applied Economics (Public Policy), a candidate shall satisfactorily complete courses to the value of 36 units including:

- 4.1 3 units of quantitative courses chosen from:
  - ECON 7001 Topics in Applied Econometrics IIID... 3
  - ECON 7022 Econometric Theory IIID.....3
- 4.2 14 units of public policy courses:
  - ECON 7032 Public Economics IIID.....3
  - ECON 7065 Public Economics (H) .....4
  - ECON 7141 Challenges Facing Economic Policy Makers.....4
  - ECON 7205 Public Finance IIID .....3
- 4.3 3 units of elective chosen from:
  - ECON 7016 Resource & Environmental Economics IIID.....3
  - ECON 7044 International Finance IIID.....3
  - ECON 7058 Development Economics IIID.....3
  - ECON 7062 Strategic Thinking IIID .....3
  - ECON 7072 International Trade IIID .....3
  - ECON 7096 Economic Theory IIID .....3
  - ECON 7114 Money, Banking & Financial Markets IIID .....3
  - ECON 7215 Time Series Econometrics IIID .....3

- 4.4 4 units of electiveS, not previously taken, chosen from:
- ECON 7009 Mathematical Economics (H) ..... 4
  - ECON 7023 Econometrics (H) ..... 4
  - ECON 7025 Microeconomics (H) ..... 4
  - ECON 7055 International Trade (H) ..... 4
  - ECON 7056 International Finance (H) ..... 4
  - ECON 7059 Macroeconomics A (H) ..... 4
  - ECON 7077 Economic Development (H) ..... 4

- 4.5 In addition, courses presented must include 12 units as follows:
- either:*
- Any combination of additional courses from 4.3 and 4.4 to the value of at least 12 units ..... 12

- or*
- ECON 7212 Master of Applied Economics  
Public Policy Dissertation\* .....12
  - ECON 7213 Master of Applied Economics  
Public Policy Dissertation\* .....8
  - ECON 7214 Master of Applied Economics  
Public Policy Dissertation\* .....9

*\* Only available to students who have achieved a Distinction average. Students must first consult with the Academic Program Coordinator.*

**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**

### Master of Applied Economics (Public Policy)

- Knowledge and understanding of the content of economics at advanced levels that are internationally recognised, including specialisation in the fields of economics and public policy
- The ability to analyse, evaluate and synthesise information from a wide variety of sources and experiences relevant to this field
- The capacity for critical thinking and problem-solving skills with respect to the field of policy.
- An appreciation of the value of a commitment to learn and maintain intellectual curiosity and to continuous learning in this field
- The ability to take a leadership role in policy-making processes and a commitment to the highest standards of professional endeavour.



## 1 General

- 1.1 This document must be read in conjunction with:
- the General Academic Program Rules for Master by Research Programs (see under Adelaide Graduate Centre, p.18) *and*
  - the Research Student Handbook, published by the Adelaide Graduate Centre.

These documents explain procedures to be followed and contain guidelines on supervision and research for the degree of Doctor of Philosophy and the various Masters Degrees by Research, offered by the University.

All students must comply with both the General Academic Rules and the rules following below, and procedures outlined in the Research Student Handbook.

In addition to the General Academic Program Rules for Masters by Research degrees, in this publication, the following discipline specific rules apply.

## 2 Enrolment

- 2.1 Continuation of enrolment after the first twelve months of the degree will depend on overall academic progress including the satisfactory completion of the Core Component of the Structured Program within twelve months (or part time equivalent\*) from the commencement of candidature.

*\* This rule supersedes general academic program rule 9.2.*

- 2.2 The Core Component of the Structured Program shall include the formulation of a research proposal and usually, its presentation at a seminar, together with any other elements as determined by the Faculty. For the Master of Economics degree this would normally include at least the following:
- ECON 7086 Advanced Macroeconomics *and*  
ECON 7087 Advanced Microeconomics.



# Master of Economics (Coursework)

## 1 General

Each candidate will be required to undertake, during University vacations, such studies as may be prescribed.

## 2 Duration of program

- 2.1 a except by special permission of the School, the work of the degree for a full-time candidate shall be completed in not less than one year and not more than two years from the date of candidature accepted by the School.
- b except by special permission of the School, the work of the degree for a part-time candidate shall be completed in not less than two years and not more than six years from the date of candidature accepted by the School.

## 3 Admission

- 3.1 The School may accept as a candidate for the degree any graduate who:
  - a has qualified for the degree Bachelor of Economics with First or Second-Class Honours of the University of Adelaide *or*
  - b has qualified for an Honours degree of another university, which degree the School regards as being equivalent to a First or Second-Class Honours degree in Economics of the University of Adelaide *or*
  - c has qualified for the Graduate Diploma in Advanced Economics of the University of Adelaide *or*
  - d has shown satisfactory progress in the Master of Applied Economics, Master of Applied Economics (International) or Master of Applied Economics (Public Policy) of the University of Adelaide, or its equivalent from another University, at a standard deemed by the School to be sufficient for admission to the program for the degree of Master of Economics (Coursework).

- 3.2 The School may, in special cases and subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the degree a person who, irrespective of whether or not the candidate is a university graduate, has given evidence satisfactory to the School of fitness to undertake work for the degree.

## 4 Enrolment

A candidate's program of study must be approved by the Head of School (or nominee) at enrolment each year.

## 5 Assessment and examinations

- 5.1 On completion of the work, the candidate shall lodge with the School three copies of the dissertation or project prepared in accordance with the directions given to candidates by the School.
- 5.2 Results of those who pass in any of the courses shall be published within the following classifications: High Distinction, Distinction, Credit, Pass.
- 5.3 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. A candidate who is not eligible to present for examination or final assessment shall be deemed to have failed the examination/final assessment.
- b A candidate who fails a course and wishes to repeat the course shall again attend lectures and tutorials and satisfactorily do such written and practical work as the lecturer concerned may prescribe.
- c A candidate who has failed twice the examination in any course or division of 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.

## 5.4 Academic progress

A candidate's progress shall be reviewed by the School at the end of each year. If in the opinion of the School a candidate is not making satisfactory progress the School may, with the consent of the Council, withdraw its approval of the candidature and the candidate shall cease to be enrolled for the degree.

## 6 Qualification requirements

### 6.1 Academic program

To qualify for the degree of Master of Economics (Coursework), the candidate shall complete satisfactorily a program of study which shall comprise 24 units as follows.

- 6.1.1 ECON 7086 Advanced Macroeconomics.....3
- ECON 7087 Advanced Microeconomics.....3
- 6.1.2 One of the following quantitative courses:
  - ECON 7001 Topics in Applied Econometrics IIID+ .....3
  - ECON 7022 Econometrics IIID+ .....3
- 6.1.3 Up to four other courses not previously or otherwise completed:
  - ECON 7001 Topics in Applied Econometrics IIID+ .....3

ECON 7022 Econometric Theory IIID <sup>+</sup> .....	3
ECON 7067 Economic Development .....	3
ECON 7100 International Finance IV .....	3
ECON 7102 International Trade .....	3
ECON 7110 Mathematical Economics .....	3
ECON 7115 Public Economics .....	3
ECON 7117 Reading Topics A* .....	3
ECON 7118 Reading Topics B* .....	3
ECON 7121 Microeconomics IV* .....	3
ECON 7122 Macroeconomics IV* .....	3
ECON 7202 Advanced Econometrics .....	3
ECON 7204 Econometrics IV .....	3
ECON 7215 Time Series Econometrics IIID .....	3

<sup>+</sup> See 6.2 below.

\* These courses are only available to students enrolled in the M.Ec.(Cswk) program by special permission of the School.

Note: the precise number of courses to be offered in any one year will depend upon staff availability and student demand.

#### 6.1.4 Supervised research project

ECON 7108 Master of Economics Research Project A .....	6
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or

ECON 7134 A/B Master of Economics Research Project A (Part-time) .....	6
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or

ECON 7109 Master of Economics Research Project B .....	3
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or

ECON 7135 A/B Master of Economics Research Project B (Part-time) .....	3
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6.2 Students may count only one of ECON 7001 Topics in Applied Econometrics IIID or ECON 7022 Econometric Theory IIID towards the Masters.

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.

6.4 Where a candidate has completed coursework which has not been presented for another qualification and which is deemed by the School of Economics to be equivalent to the courses listed under 6.1, status may be granted up to a maximum of four such courses.

6.5 In special circumstances, candidates may be given permission to substitute another course for courses listed in 6.1 above.

Students enrolled in previous years should consult the Postgraduate Adviser for advice on qualification requirements.

## 6.6 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.

## 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**

Master of Economics (Coursework)

### **Program Objectives**

- To provide students with analytical and econometric skills that will enable them to perform as a professional economist in the public or private sectors.

### **Graduate Attributes**

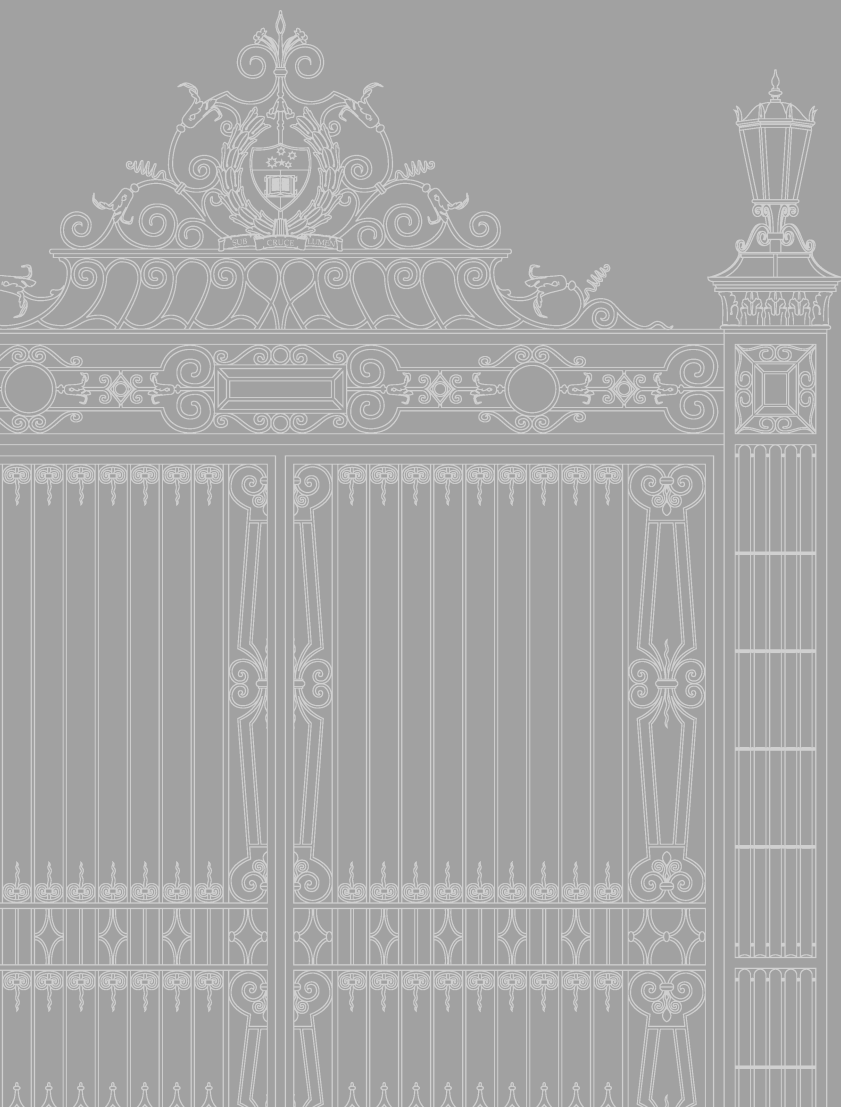
- Explain, apply and critically evaluate the use of economic theory and advanced econometric methods in the analysis of economic policies contained in government publications by the Central Bank, Departments of Treasury and Finance or the ACCC and other similar regulatory bodies.

### **Generic Skills**

On completion of the program students should be able to demonstrate:

- Mastery of software for advanced econometric analysis (Eviews or equivalent)
- Apply the analytical skills obtained to provide precise written and oral reports
- The capacity to gain publication in ranked field journals.





# Academic Program Rules

## School of Education

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### Postgraduate Awards

- Graduate Certificate in Education (Higher Education)
- Graduate Certificate in Education (Mathematics and Technology)
- Graduate Certificate in Education (Science and Technology)
- Graduate Certificate in Online teaching (Higher Education)
- Graduate Diploma in Education
- Master of Education
- Master of Education (Mathematics and Technology)
- Master of Education (Science and Technology)
- Master of Educational Studies
- Master of Educational Research
- Doctor of Education

#### 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 Certificate in Education (Higher Education)

## 1 Duration of program

To qualify for the Graduate Certificate, a candidate shall satisfactorily complete the equivalent of one semester of full-time study over a period of not less than one year, and not more than 3 years, of part-time study.

The Graduate Certificate is offered only on a part time basis.

## 2 Admission

2.1 An applicant for admission to the academic program for the Graduate Certificate in Education (Higher Education) shall have qualified for a degree of the University or a degree of another institution accepted by the Faculty for the purpose as equivalent to a degree of the University.

2.2 An applicant for admission must have relevant teaching experience in a tertiary institution.

2.3 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the Graduate Certificate a person who does not satisfy the requirements of Rules 2.1 and 2.2 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the Graduate Certificate.

### 2.4 Status, exemption and credit transfer

2.4.1 Except with special permission of the Faculty, no candidate will be granted status for any course that he or she has presented for another award.

2.4.2 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially therefrom by the Executive Dean of the Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

## 3 Assessment and examinations

3.1 There shall be one classification of pass in any course for the Graduate Certificate: Non-Graded Pass.

3.2 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

To qualify for the Graduate Certificate, a candidate shall satisfactorily complete courses to the value of 12 units, as follows:

EDUC 5401 University Teaching for Effective Student Learning .....	3
EDUC 5402 Curriculum Design, Assessment and Evaluation .....	3

EDUC 5403 Reflective Practice in Learning and Teaching.....	3
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EDUC 5404 Research Based Learning and Teaching.....	3
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## 4.1 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 Certificate in Education (Mathematics and Technology) Graduate Certificate in Education (Science and Technology)

## 1 Duration of program

To qualify for the Graduate Certificate, a candidate shall satisfactorily complete a program of study comprising one semester of full-time study or not more than two years of part-time study.

## 2 Admission

2.1 An applicant for admission to the program of study for the Graduate Certificate in Education (Mathematics and Technology) or Graduate Certificate in Education (Science and Technology) shall:

a have qualified for a Bachelors degree in Science, Mathematics, Engineering or Technology, and have qualified for a Graduate Diploma in Education of the University or for an award accepted by the University as equivalent, plus have at least one year of full-time teaching experience

*or*

b have qualified for a Bachelor of Education (Secondary Science) or equivalent, plus have at least one year of full-time teaching experience.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the degree a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the degree.

## 2.3 Status, exemption and credit transfer

2.3.1 Except with the special permission of the Faculty, no candidate will be granted status towards the requirements of the Graduate Certificate on account of courses presented for any other award.

2.3.2 No candidate will be permitted to count for the award any course that, in the opinion of the Faculty, contains substantially the same material as any other course which he or she has already presented for another award.

2.3.3 A candidate who fails a course and desires to repeat that course shall, unless exempted partially therefrom by the Executive Dean of Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass: Pass with High Distinction, Pass with Distinction, Pass with Credit, and Pass.

3.2 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 purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the Graduate Certificate in Education (Mathematics and Technology) or Graduate Certificate in Education (Science and Technology), a candidate shall satisfactorily complete courses to the value of 12 units, as follows:

EDUC 7001 Educational Inquiry .....3

EDUC 7010 Innovations in Teaching, Learning and Assessment .....3

EDUC 7012 Issues in Science, Mathematics and Technology Education .....3

*or*

EDUC 7014 Mathematics Education.....3

EDUC 7018 Neuroscience & Education .....3

Research Methodology course .....3

Elective courses.....9

4.2 Within each of these courses, candidates will focus on either mathematics or science, according to the program in which they are enrolled.

4.3 No candidate will be permitted to count towards the 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 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 Certificate in Online Learning (Higher Education)

## 1 Duration of program

This program is only offered fully online. To qualify for the Graduate Certificate, a candidate shall satisfactorily complete the equivalent of one semester of full-time study over a period of not less than one year, and not more than 3 years, of part-time study.

The Graduate Certificate is offered only on a part-time basis.

## 2 Admission

2.1 An applicant for admission to the academic program for the Graduate Certificate in Online Learning (Higher Education) shall have qualified for a degree of the University or a degree of another institution accepted by the Faculty for the purpose as equivalent to a degree of the University.

2.2 An applicant for admission must have teaching experience in a tertiary institution and have had some exposure to online learning management systems as a teacher and/or learner. Applicants should also be familiar with standard desktop software applications.

2.3 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the Graduate Certificate a person who does not satisfy the requirements of Rules 2.1 and 2.2 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the Graduate Certificate.

### 2.4 Status, exemption and credit transfer

2.4.1 Except with special permission of the Faculty, no candidate will be granted status for any course that he or she has presented for another award.

2.4.2 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially there from by the Executive Dean of the Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

## 3 Assessment and examinations

3.1 There shall be one classifications of pass in any course for the Graduate Certificate: Non-Graded Pass.

3.2 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

4.1 To qualify for the Graduate Certificate, a candidate shall satisfactorily complete courses to the value of 12 units, as follows:

EDUC 5405 ICT Literacy in Higher Education..... 3

EDUC 5406 Online Learning Design, Assessment and Evaluation ..... 3

EDUC 5407 Online Learning Communities ..... 3

EDUC 5408 The Changing Nature of Educational Research..... 3

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

### 4.3 Graduation

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

## 5 Special circumstances

When in the opinion of the 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 Diploma in Education

Completion of this program satisfies the requirements for registration with the Teacher Registration Board of South Australia.

## 1 Duration of program

To qualify for the Graduate Diploma a student shall satisfactorily complete a program of one year of full-time study, and in the case of part-time candidature, not more than six years from the date of candidature.

## 2 Admission

2.1 An applicant for admission to the program of study for the Graduate Diploma in Education shall have qualified for a degree of the University or for a degree of another institution accepted for the purpose by the University.

### 2.2 Status, exemption and credit transfer

2.2.1 No student may be granted more than twelve units of status toward the Graduate Diploma for other studies undertaken in the University or other institutions.

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

### 2.3 Articulation with other awards

2.3.1 Students who have been admitted to the award of Graduate Certificate in Educational Studies who subsequently successfully complete the requirements of the Graduate Diploma in Education must surrender their first award before being admitted to the Graduate Diploma in Education.

2.3.2 Notwithstanding the above Rules a candidate who has been enrolled for the degree of Graduate Diploma in Education and who has completed the work prescribed herein for the Graduate Certificate in Educational Studies and who has not been awarded the Graduate Diploma shall, on written application to the Faculty, be awarded the Graduate Certificate.

## 3 Assessment and examinations

3.1 There shall be one of two systems of classification of pass in individual courses for the Graduate Diploma: either Non-Graded Pass, or Pass with High Distinction, Pass with Distinction, Pass with Credit, and Pass.

### 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 Faculty 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, without a reason accepted by the Head of the School of Education as adequate, attend all or part of a final examination (or supplementary examination if granted) after having enrolled for at least two thirds of the normal period during which the course is taught, shall be deemed to have failed the examination.

## 4 Qualification requirements

### 4.1 Academic program

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

#### 4.1.1 Teaching Practice

Teaching Practice courses to the value of 6 units

EDUC 6205 Teaching Practice Part I .....	3
EDUC 6206 Teaching Practice Part II.....	3

#### 4.1.2 Curriculum and Methodology

Courses to a value of six units taken from:

##### Humanities

EDUC 6320 A/B Geography Curriculum & Methodology .....	2
EDUC 6322 A/B History Curriculum & Methodology .....	2
EDUC 6334 A/B Studies of Society & Environment .....	2

##### Business

EDUC 6308 A/B Accounting Curriculum & Methodology .....	2
EDUC 6311 A/B Business Studies Curriculum & Methodology .....	2
EDUC 6315 A/B Economics Curriculum & Methodology .....	2

##### English

EDUC 6319 A/B General English Curriculum & Methodology .....	2
EDUC 6332 A/B Senior English Curriculum & Methodology .....	2

### Languages other than English

EDUC 6313 A/B Chinese Curriculum & Methodology .....	2
EDUC 6316 A/B English as a Second Language .2	
EDUC 6318 A/B French Curriculum & Methodology .....	2
EDUC 6321 A/B German Curriculum & Methodology .....	2
EDUC 6323 A/B Indonesian Curriculum & Methodology .....	2
EDUC 6326 A/B Italian Curriculum & Methodology .....	2
EDUC 6327 A/B Japanese Curriculum & Methodology .....	2
EDUC 6330 A/B Language Methodology.....	2
EDUC 6335 A/B Spanish Curriculum & Methodology .....	2
EDUC 6336 A/B Other Languages Curriculum & Methodology .....	2
EDUC 6337 A/B Vietnamese Curriculum & Methodology .....	2
EDUC 6338 A/B Modern Greek Curriculum & Methodology .....	2
EDUC 6339 A/B Languages Education for TESOL .....	2

### Mathematics

EDUC 6324 A/B Information Technology Curriculum & Methodology.....	2
EDUC 6328 A/B Junior Mathematics Curriculum & Methodology .....	2
EDUC 6333 A/B Senior Mathematics Curriculum & Methodology .....	2

### Music

EDUC 6314 A/B Classroom Music Curriculum & Methodology .....	3
EDUC 6325 A/B Instrumental Music Curriculum & Methodology .....	3

### Science

EDUC 6310A/B Biology Curriculum & Methodology .....	2
EDUC 6312A/B Chemistry Curriculum & Methodology .....	2
EDUC 6329A/B Junior Science Curriculum & Methodology .....	2
EDUC 6331A/B Physics Curriculum & Methodology .....	2
EDUC 6342A/B Agricultural Science Curriculum & Methodology .....	2

### General

EDUC 6309 A/B Adult Learner Curriculum & Methodology .....	2
EDUC 6317 A/B Extended Specialist Curriculum..	2

### 4.1.3 Education Studies

Education Studies courses to a total value of 12 units as follows

EDUC 6201 Education, Culture and Indigenous Perspectives.....	3
EDUC 6202 Student Learning and Interaction .....	3
EDUC 6203 Curriculum and Assessment of Learning.....	3
EDUC 6204 Families, Schools & Special Needs ...	3

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

### 4.3 Graduation

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

## 5 Special circumstances

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

## **Graduate Attributes**

### Graduate Diploma in Education

#### **Knowledge**

- Knowledge and understanding of the students' chosen discipline areas
- Cognitive skills in analysing, evaluating and synthesising information
- The capacity for critical thinking and problem solving
- Interpersonal and communication skills of a high order
- The ability to innovate changes within the teaching profession and community at large
- A proficiency in the appropriate and responsible use of modern technologies
- An awareness of the need to participate responsibly and critically 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 to engage in reflective practice and professional learning.

#### **Skills**

- A significant understanding of basic domains of knowledge – gained through the discipline-based undergraduate degree
- A competence in constructing a pedagogical approach to teaching in the classroom
- A capacity to integrate the particular and special concerns of families, peers and neighbourhoods into their teaching - gained from ongoing experiences in a variety of schools
- An understanding of the existing school systems and the ability to explore how the next generation of schools might most appropriately be designed
- A capacity to collaborate and network with the broader community of practice.



# Master of Education

## 1 General

- 1.1 This document must be read in conjunction with:
- the General Academic Program Rules for Master by Research Programs (see under Adelaide Graduate Centre, p.18) *and*
  - the Research Student Handbook, published by the Adelaide Graduate Centre.

These documents explain procedures to be followed and contain guidelines on supervision and research for the degree of Doctor of Philosophy and the various Masters Degrees by Research, offered by the University.

All students must comply with both the General Academic Rules and the rules following below, and procedures outlined in the Research Student Handbook.

In addition to the General Academic Program Rules for Masters by Research degrees, in this publication, the following discipline specific rules apply.

## 2 Admission

- 2.1 Further to Rules 4.1 - 4.5 of the General Academic Program Rules, a candidate for the Master of Education degree would normally be expected to satisfy the following requirements:

Have qualified for at least a Class II honours degree of the University or of another University accepted for the purpose by the University, and have qualified for the Graduate Diploma in Education of the University or for a qualification accepted by the University as equivalent.

### 2.2 Status, exemption and credit transfer

With the permission of the Research Education and Development Committee, students may be granted up to a maximum of six units worth of coursework status for other studies undertaken in the University or other institutions

## 3 Enrolment

- 3.1 In addition to Rule 9.3 of the General Academic Program Rules, the Core Component of the Structured Program for the Master of Education degree would consist of:
- at least one research methodology course from those listed in the Master of Educational Research program
  - another appropriate/relevant course from those offered in the Master of Educational Research program
  - the formulation of a research proposal and its presentation to a departmental seminar.





# Master of Education (Mathematics and Technology)

## Master of Education (Science and Technology)

### 1 Duration of program

To qualify for the degree, a candidate shall satisfactorily complete a program of study comprising two years of full-time study or four years of part-time study.

### 2 Admission

2.1 An applicant for admission to the program of study for the degree of Master of Education (Science and Technology) or Master of Education (Mathematics and Technology) shall:

- a have qualified for a Bachelors degree in Science, Mathematics, Engineering or Technology, and have qualified for a Graduate Diploma in Education of the University or for an award accepted by the University as equivalent, plus have at least one year of full-time teaching experience *or*
- b have qualified for a Bachelor of Education (Secondary Science) or equivalent, plus have at least one year of full-time teaching experience.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the degree a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the degree.

### 2.3 Status, exemption and credit transfer

- 2.3.1 Except with the special permission of the Faculty, no candidate will be granted status for any of the research methodology courses of the degree.
- 2.3.2 No candidate shall be granted status for courses with a total value of more than 9 units on account of courses presented for any other award, except the Master of Educational Studies where up to 12 units on account of education courses may be awarded.
- 2.3.3 No candidate will be permitted to count for the degree any course that, in the opinion of the Faculty, contains substantially the same material as any other course which he or she has already presented for another award.
- 2.3.4 A candidate who fails a course and desires to repeat that course shall, unless exempted partially therefrom by the Executive Dean of Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

### 2.4 Articulation with other awards

A candidate who has been admitted to the Graduate Certificate in Education (Mathematics and Technology) or Graduate Certificate in Education (Science and Technology) and who subsequently satisfies the requirements for the Master of Education (Science and Technology) or Master of Education (Mathematics and Technology) must surrender the Graduate Certificate before being admitted to the Master degree.

### 3 Assessment and examinations

- 3.1 There shall be four classifications of pass: Pass with High Distinction, Pass with Distinction, Pass with Credit, and Pass.
- 3.2
  - 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 purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.
- 3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

### 4 Qualification requirements

#### 4.1 Academic program

To qualify for the degree of Master of Education (Science and Technology) or Master of Education (Mathematics and Technology), a candidate shall satisfactorily complete courses to the value of 48 units, as follows.

#### 4.1.1 Core courses

All candidates must complete core courses to the value of 12 units:

EDUC 7001 Educational Inquiry .....	3
EDUC 7010 Innovations in Teaching, Learning & Assessment .....	3
EDUC 7012 Issues in Science, Mathematics and Technology Education .....	3
<i>or</i>	
EDUC 7014 Mathematics Education .....	3
EDUC 7018 Neuroscience and Education .....	3

#### 4.1.2 Elective Courses

All candidates take electives to the value of 18 units:

EDUC 7016 Multicultural Society & Educational Policy	3
EDUC 7004 Curriculum design and evaluation in Science, Mathematics and Technology	3
EDUC 7008 Indigenous Education	3
EDUC 7003 Classroom Voices, Context and Cultures	3
EDUC 7011 Introduction to Statistics in Educational Research	3
EDUC 7009 Frequency & Count Data	3
<i>or</i>	
EDUC 7015 Measurement, Evaluation & Assessment	3
EDUC 7017 Multimedia Literacy & Learning Objectives	3

Note: not all elective courses will be offered in any one calendar year.

#### 4.1.3 Research

All candidates shall complete 18 units:

EDUC 7007 Education Minor Project	3
EDUC 7020 Qualitative Approaches to Educational Research	3
EDUC 7021 Quantitative Educational Research	3
EDUC 7032 Education Research Project	9

4.1.4 For candidates to qualify for the degree of Master of Education (Science and Technology) the content choice of research dissertation or projects must focus on Science and Technology.

4.1.5 For candidates to qualify for the degree of Master of Education (Mathematics and Technology) the content choice of research dissertation/projects must focus on Mathematics and Technology.

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

#### 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.

## 1 Duration of program

To qualify for the degree, a candidate shall satisfactorily complete a program of study comprising three semesters of full-time or not more than six years of part-time study.

## 2 Admission

2.1 An applicant for admission to the program of study for the degree of Master of Educational Research shall have qualified for a degree of the University, or for a degree of another institution accepted for the purpose by the University, and have qualified for a Master of Educational Studies of the University or for an award accepted by the University as equivalent with an overall grade of 75% or better or Honours IIA.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the degree a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the fitness to undertake work for the degree.

### 2.3 Status, exemption and credit transfer

2.3.1 Except for special permission of the Faculty, no candidate will be granted status for any of the research methodology courses of the degree.

2.3.2 No candidate shall be granted status for courses with a total value of more than 9 units on account of courses presented for any other award.

2.3.3 No candidate will be permitted to count for the degree any course that, in the opinion of the Faculty, contains substantially the same material as any other course that he or she has already presented for another award.

2.3.4 A candidate who fails a course and desires to repeat that course shall, unless exempted partially therefrom by the Executive Dean of Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

### 2.4 Articulation with other awards

2.4.1 A candidate who has been admitted to the Master of Educational Studies and who subsequently satisfies the requirements for the Master of Educational Research must surrender the Master of Educational Studies before being admitted to the research masters degree.

2.4.2 A candidate for the degree of Master of Educational Research who does not complete the requirements of the degree may be admitted to the Master of Educational Studies or Graduate Certificate in Education [Specialisation].

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Master of Educational Research: Pass with High Distinction, Pass with Distinction, Pass with Credit, and Pass.

3.2 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 purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 3.4 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 Academic program

To qualify for the degree of Master of Educational Research, a candidate shall satisfactorily complete courses to the value of 36 units, as follows:

#### 4.1.1 Research methodology courses

All candidates shall complete two of the following research methodology courses to the value of 6 units:

EDUC 7001 Educational Inquiry .....	3
EDUC 7020 Qualitative Approaches to Educational Research .....	3
EDUC 7021 Quantitative Educational Research ...	3

#### 4.1.2 Elective courses

All candidates shall complete elective courses to the value of 21 units selected from the following:

EDUC 7003 Classroom Voices, Contexts & Cultures .....	3
EDUC 7004 Curriculum Design & Evaluation .....	3
EDUC 7008 Indigenous Education .....	3
EDUC 7009 Frequency & Count Data .....	3

EDUC 7010 Innovations in Teaching, Learning & Assessment.....	3
EDUC 7011 Introduction to Statistics in Educational Research.....	3
EDUC 7012 Issues in Science, Mathematics & Technology Education .....	3
EDUC 7014 Mathematics Education.....	3
EDUC 7015 Measurement, Evaluation & Assessment.....	3
EDUC 7016 Multicultural Society & Educational Policy.....	3
EDUC 7018 Neuroscience & Education .....	3

*and*

Approved courses listed for any relevant coursework Masters program. Advice on appropriate options is available from the School of Education.

- 4.1.2.1 Students may take additional research methodology courses in lieu of elective courses.

#### **4.1.3 Research project**

All Master of Educational Research candidates shall complete the following to the value of 9 units:

EDUC 7007 Education Minor Project .....	3
EDUC 7031 Education Major Project .....	6
EDUC 7032 Education Research Project F/T .....	9

*or*

EDUC 7033A/B Education Research Project P/T....	9
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#### **4.2 Unacceptable combination of courses**

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

#### **4.3 Graduation**

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

### **5 Special circumstances**

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

## **Graduate Attributes**

### Master of Educational Research

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



## 1 Duration of program

To qualify for the degree, a candidate shall satisfactorily complete a program of study comprising two semesters of full-time study or not more than six years of part-time study.

## 2 Admission

- 2.1 An applicant for admission to the program of study for the degree of Master of Educational Studies shall:
  - a have qualified for a degree of the University, or for a degree of another institution accepted for the purpose by the University and have qualified for a Graduate Diploma in Education of the University or for an award accepted by the University as equivalent *or*
  - b have qualified for a Bachelor of Education of another institution accepted for the purpose by the University.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the degree a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the degree.

### 2.3 Status, exemption and credit transfer

- 2.3.1 Except with the special permission of the Faculty, no candidate will be granted status for any of the research methodology courses of the degree.
- 2.3.2 No candidate shall be granted status for courses with a total value of more than 9 units on account of courses presented for any other award.
- 2.3.3 No candidate will be permitted to count for the degree any course that, in the opinion of the Faculty, contains substantially the same material as any other course which he or she has already presented for another award.
- 2.3.4 A candidate who fails a course and desires to repeat that course shall, unless exempted partially therefrom by the Executive Dean of Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

### 2.4 Articulation with other awards

2.4.1 A candidate for the degree of Master of Educational Studies who does not complete the requirements of the degree may be admitted to the Graduate Certificate in Education [Specialisation].

## 3 Assessment and examinations

- 3.1 There shall be four classifications of pass in any course for the Master of Educational Studies: Pass with High Distinction, Pass with Distinction, Pass with Credit, and Pass.
- 3.2
  - 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 purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.
- 3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the degree of Master of Educational Studies, a candidate shall satisfactorily complete courses to the value of 24 units, as follows:

#### 4.1.1 Research Methodology course (Core)

EDUC 7001 Educational Inquiry ..... 3

#### 4.1.2 Elective courses

Elective courses to the value of 18 units:

EDUC 7003 Classroom voices, Contexts & Cultures ..... 3

EDUC 7004 Curriculum Design & Evaluation ..... 3

EDUC 7008 Indigenous Education ..... 3

EDUC 7010 Innovations in Teaching, Learning & Assessment ..... 3

EDUC 7011 Introduction to Statistics in Educational Research ..... 3

EDUC 7014 Mathematics Education ..... 3

EDUC 7016 Multicultural Society & Educational Policy ..... 3

EDUC 7018 Neuroscience and Education ..... 3  
*and*

Approved courses listed for any relevant coursework Masters program. Advice on appropriate options is available from the School of Education.

#### 4.1.3 Research 3 units (Core)

EDUC 7007 Education Minor Project ..... 3

4.2 No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty

concerned, contains a substantial amount of the same material; and no course or portion of a course may be counted twice towards an award.

#### **4.3 Graduation**

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

### **5 Special circumstances**

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

## **Graduate Attributes**

### Master of Educational Studies

- A capacity to examine education-related studies and draw conclusions for everyday practice
- The ability to integrate research findings from a number of disciplines such as psychology, sociology, measurement, history, and studies of curriculum in various subject areas
- A capacity to write essays on education-related topics that are both clear and demonstrate a high level of understanding
- The ability to examine educational issues in group settings
- The capacity to begin the planning of a research study on an education-related topic
- The ability to apply education research in an international context
- An understanding of the importance of continuous learning
- The capacity to share and collaborate with fellow students, and an awareness and expertise in the collaborative practices of teachers with each other and with the broader educational community
- An understanding of the highest standards of endeavour in teaching and student learning and the ability to take a leadership role in the educational community
- The capacity to work in teams.





# Doctor of Education

## 1 General

- 1.1 This document must be read in conjunction with:
- the General Academic Program Rules for Professional Doctorate Degrees (see under Adelaide Graduate Centre p.18) *and*
  - the Research Student Handbook, published by the Adelaide Graduate Centre.

These documents explain procedures to be followed and contain guidelines on research and supervision for research degrees offered by the University.

All students must comply with both the General Academic Program Rules for Professional Doctorate Degrees and the rules following below, and the policy and procedures outlined in the Research Student Handbook.

In addition to the General Academic Program Rules for Professional Doctorate Degrees in this publication, the following program specific rules apply to the Doctor of Education

## 2 Academic standing

A candidate for the Doctor of Education would normally be expected to hold education qualifications, either in addition to the requirements laid down in 4.1 and 4.2 of the Academic Program Rules for the Professional Doctorates, or as part of the earlier awards, such as Class II Honours.

## 3 Duration of Candidature

The normal program duration for the Doctor of Education will be four years of full time equivalent (FTE) study.

## 4 Work for the degree

- 4.1 For the Doctor of Education, the research undertaken shall take the form of a portfolio of professional research comprising three research projects on a particular professional issue or context.
- 4.2 The portfolio must contain an abstract that summarises the main findings presented in each research project and indicates how the three projects, when considered together, demonstrate a significant contribution to professional knowledge in education.
- 4.3 The portfolio must include an introduction which succinctly describes the professional problem or issue to be investigated, provides a critical review of the relevant literature in the area (which may replicate literature cited in the subsequent research projects), identifies specific gaps in

educational knowledge and understanding and outlines the aims of the three research projects and the specific educational contexts in which the investigations take place.

- 4.4 The portfolio must contain a conclusion showing the professional significance of the findings for educational theory and practice, making recommendations for their practical implementation in educational contexts and for future research.

## 5 Required program of activities at the commencement of candidature

- 5.1 The Core Component of the Structured Program for the Doctor of Education must include:
- two research methodology courses from those offered for the Master of Educational Research degree *or*
  - where appropriate, one research methodology course and one other relevant course from those offered for the Master of Educational Research degree.





# Academic Program Rules

## Faculty of Engineering, Computer and Mathematical Sciences

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<sup>+</sup> There will be no further intake into these programs.

\* The Academic Program Rules for these shared programs are listed in the Health Sciences section of this calendar.

## Postgraduate Awards

- Graduate Certificate in Business Enterprise (SME)
- Graduate Certificate in Computer Science
- Graduate Certificate in Innovation and Entrepreneurship
- Graduate Certificate in Marine Engineering
- Graduate Certificate in Mathematical Signal and Information Processing
- Graduate Certificate in Project Management
- Graduate Certificate in Science and Technology Commercialisation
- Graduate Certificate in Sciences (Defence)
- Graduate Certificate in Sciences (Defence Signal Information Processing)
- Graduate Certificate in Social Entrepreneurship and Innovation
- Graduate Certificate in Water Resources Management
- Graduate Diploma in Applied Statistics
- Graduate Diploma in Computer Science
- Graduate Diploma in Innovation and Entrepreneurship
- Graduate Diploma in Marine Engineering
- Graduate Diploma in Mathematical Science
- Graduate Diploma in Science and Technology Commercialisation
- Graduate Diploma in Sciences (Defence)
- Graduate Diploma in Sciences (Defence Signal Information Processing)
- Graduate Diploma in Water Resources Management
- Master of Applied Science
- Master of Applied Innovation and Entrepreneurship
- Master of Applied Innovation and Entrepreneurship (Advanced)
- Master of Applied Project Management
- Master of Applied Project Management (Advanced)
- Master of Computer Science
- Master of Computing and Innovation
- Master of Engineering in Chemical Engineering
- Master of Engineering in Civil and Environmental Engineering
- Master of Engineering in Civil and Structural Engineering
- Master of Engineering in Electrical & Electronic Engineering
- Master of Engineering in Engineering Mathematics
- Master of Engineering in Mechanical Engineering
- Master of Engineering in Mechatronic Engineering
- Master of Engineering (Advanced) in Chemical Engineering – Energy and Combustion
- Master of Engineering (Advanced) in Chemical Engineering – Environmental and Sustainability
- Master of Engineering (Advanced) in Chemical Engineering – Food and BioProcessing
- Master of Engineering (Advanced) in Civil and Environmental Engineering
- Master of Engineering (Advanced) in Civil and Structural Engineering
- Master of Engineering (Advanced) in Mechanical Engineering
- Master of Engineering (Advanced) in Mechatronic Engineering
- Master of Engineering (Advanced) in Sensor Systems Signal processing

- Master of Engineering (Advanced) in Telecommunications
- Master of Engineering Science
- Master of Innovation and Entrepreneurship
- Master of Geostatistics
- Master of Information Technology
- Master of Marine Engineering
- Master of Mathematical Science
- Master of Mathematical Sciences (Signal and Information Processing)
- Master of Petroleum Business Management
- Master of Petroleum Engineering
- Master of Project Management
- Master of Science and Technology Commercialisation
- Master of Science and Technology Commercialisation (Advanced)
- Master of Science in Mathematical and Computer Sciences
- Master of Sciences (Defence)
- Master of Sciences (Defence Signal Information Processing)
- Master of Software Engineering
- Master of Water Resources Management

**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**

### Entrepreneurship, Commercialisation & Innovation Centre (ECIC)

- 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.







# Professional Certificate in Applied Statistics

**Note:** There will be no further intake into this program.

## 1 Duration of program

The program for the Professional Certificate shall be completed in two semesters.

## 2 Admission

2.1 An applicant for admission to the program for the Professional Certificate in Applied Statistics shall have qualified for a degree of the University or another institution accepted by the University for the purpose as equivalent, or shall have had at least 3 years approved statistical work experience, and shall have demonstrated to the satisfaction of the University to have the capacity and experience to benefit from the program.

2.2 The Faculty may, subject to any conditions as it may see fit to impose in each case, accept as a candidate for the Professional Certificate a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the Professional Certificate.

### 2.3 Status, exemption and credit transfer

With the permission of the Faculty, status may be granted for courses, on written application from the candidate.

### 2.4 Articulation with other awards

A candidate who has been admitted to the Professional Certificate in Applied Statistics and who subsequently satisfies the requirements for the Graduate Diploma in Statistics must surrender the Professional Certificate before being admitted to the Graduate Diploma.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Professional Certificate: Pass with High Distinction; Pass with Distinction; Pass with Credit; and Pass

- 3.2
- a 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.
  - b For the purpose of this Rule, a candidate who is refused permission to sit for the examination shall be deemed to have failed the examination.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the Professional Certificate, a candidate shall satisfactorily complete three courses, as listed below and a project.

STATS 5000 Descriptive Statistics and Probability .....	2
STATS 5001 Statistical Inference and Regression.....	2
STATS 5002 Time Series and Survey Sampling Methods .....	2
STATS 5003 A/B Project.....	1

4.2 No candidate will be permitted to count for the Professional Certificate any course that, in the opinion of the Faculty, contains substantially the same material as any other course that he or she has already presented for another award.

### 4.3 Graduation

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

## 5 Special circumstances

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



# Graduate Certificate in Business Enterprise (SME)

**Note: There will be no intake into this program in 2009.**

## 1 Duration of program

To qualify for the Graduate Certificate a candidate shall satisfactorily complete a program of full-time study extending over at least six months or part-time study extending over at least one year. Except with the permission of the Faculty, the work for the Graduate Certificate shall be completed within two years.

## 2 Admission

- 2.1 Except as provided for in 2.2 below, a candidate for admission to the program of study for the Graduate Certificate shall have qualified for admission to a degree of the University or for a degree of another institution accepted for the purpose by the Faculty.
- 2.2 The Faculty may, in special cases and subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the degree a person who does not qualify for admission to the program under 2.1 above but has given evidence satisfactory to the Faculty of fitness to undertake work for the degree.
- 2.3 **Status, exemption and credit transfer**  
Except with the special permission of the Faculty, no candidate will be granted status for any course that he or she has presented for another award. Such status as may be awarded in exceptional circumstances will only be awarded for graduate level studies.
- 2.4 **Articulation with other awards**  
A candidate for the Master of Innovation and Entrepreneurship who does not complete the requirements for the Masters degree but satisfies the requirements for the Graduate Certificate may be admitted to the Graduate Certificate in Business Enterprise (SME).

## 3 Assessment and examinations

- 3.1 There shall be four classifications of pass in each course for the Graduate Certificate: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.
- 3.2 A candidate shall not be eligible to attend for examination unless the prescribed work has been completed to the satisfaction of the teaching staff concerned.
- 3.3 A candidate who fails to pass in a course and desires to take the course again shall again undertake study and satisfactorily do such written and practical work as the teaching staff concerned

may prescribe, unless specifically exempted therefrom after written application to the Faculty for such exemption.

- 3.4 A candidate who has twice failed the examination in any course or division of a course may not enrol for the course again except by special permission of the Faculty and then only under such conditions as may be prescribed.
- 3.5 For the purpose of this Rule, a candidate who is refused permission to sit for examination, or who fails to attend all or part of a final examination (or supplementary examination if granted) after being 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

### 4.1 Academic program

To qualify for the Graduate Certificate in Business Enterprise (SME), a candidate shall satisfactorily complete courses to the value of 12 units as given below:

- TECHCOMM 5005 Financing Commercialisation ..3  
TECHCOMM 5018 Opportunity Assessment .....3  
TECHCOMM 5019 New Enterprise Marketing .....3  
TECHCOMM 5020 New Enterprise Operations....3

### 4.2 Unacceptable combination of courses

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

### 4.3 Graduation

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

## 5 Special circumstances

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



# Graduate Certificate in Computer Science

## 1 Duration of program

Except with the permission of the Faculty, the Graduate Certificate in Computer Science shall be completed in a minimum of one semester or a maximum of four semesters.

## 2 Admission

- 2.1 Except as provided in 2.2 below, an applicant for admission to the program for the Graduate Certificate shall have qualified for a degree of the University or a degree of another institution accepted by the Faculty for the purpose as equivalent to a degree of this University.
- 2.2 Subject to the approval of the Council, the Faculty may, in special cases and subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the Graduate Certificate a person who does not hold a degree of a tertiary institution but has given evidence satisfactory to the Faculty of fitness to undertake work for the Graduate Certificate.
- 2.3 A knowledge of SACE Stage 2 Mathematical Studies or its equivalent is assumed.
- 2.4 A person who holds any of the following qualifications shall not be eligible for the award of the Graduate Certificate in Computer Science: a degree that includes a major in Computer Science or its equivalent; the Diploma in Computer Science, Master of Computer Science of the University of Adelaide, or equivalent qualifications in Computer Science.

## 2.5 Credit transfer

- 2.5.1 A candidate who has passed courses in this or other educational institutions and who has not presented these courses towards an award may, on written application, be granted such exemption from the requirements of these rules as the Faculty shall determine. Status may be granted for a maximum of 3 units under 4.1 of the Academic Program Rules.
- 2.5.2 No candidate will be permitted to count for the Graduate Certificate any course that in the opinion of the School contains substantially the same material as any other course which he or she has presented already for another qualification.

## 3 Assessment and examination

- 3.1 There shall be four classifications of pass at an examination in any course for the Graduate Certificate: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

- 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 present for examination or final assessment shall be deemed to have failed the examination/final assessment.

- 3.3 A candidate who has twice failed to pass the examination in any course or division of a course may not enrol for that course again except by special permission to be obtained in writing from the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the Graduate Certificate the candidate shall satisfactorily complete courses to the value of at least 12 units listed in 4.1 for the degree of Graduate Diploma in Computer Science.

### 4.2 Unacceptable combinations of courses

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

### 4.3 Graduation

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

## 5 Special circumstances

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

## 1 Duration of program

Except with the permission of the Faculty, the Graduate Certificate in Social Innovation and Entrepreneurship shall be completed in a minimum of one semester or a maximum of four semesters.

## 2 Admission

- 2.1 Except as provided for in 2.2 below, a candidate for admission to the program of study for the Graduate Certificate shall have qualified for admission to a degree of the University or for a degree of another institution accepted for the purpose by the Faculty.
- 2.2 The Faculty may, in special cases and subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the degree a person who does not qualify for admission to the program under 2.1 above but has given evidence satisfactory to the Faculty of fitness to undertake work for the degree.

## 2.3 Status, exemption and credit transfer

Candidates who have previously passed courses in postgraduate awards or equivalent in the University of Adelaide or another university and who wish to count such courses towards the Graduate Certificate in Innovation and Entrepreneurship may, on written application to the Faculty, be granted such status as the Faculty shall determine, to a maximum aggregate value of three (3) units. Courses completed more than ten years prior to application to Faculty will not be considered.

## 3 Assessment and examinations

- 3.1 There shall be four classifications of pass in each course for the Graduate Certificate: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.
- 3.2 A candidate shall not be eligible to attend for examination unless the prescribed work has been completed to the satisfaction of the teaching staff concerned.
- 3.3 A candidate who fails to pass in a course and desires to take the course again shall again undertake study and satisfactorily do such written and practical work as the teaching staff concerned may prescribe, unless specifically exempted therefrom after written application to the Faculty for such exemption.
- 3.4 A candidate who has twice failed the examination in any course or division of a course may not enrol for the course again except by special permission of the Faculty and then only under such conditions as may be prescribed.

- 3.5 For the purpose of this Rule, a candidate who is refused permission to sit for examination, or who fails to attend all or part of a final examination (or supplementary examination if granted) after being 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

### 4.1 Academic program

To qualify for the Graduate Certificate in Innovation and Entrepreneurship, a candidate shall satisfactorily complete courses to the value of 12 units as given below:

#### 4.1.1 Core courses

TECHCOMM 5016 Entrepreneurship and Innovation .....	3
TECHCOMM 5018 Opportunity Assessment .....	3

#### 4.1.2 Elective courses

Two additional courses selected from the following:

TECHCOMM 5001 Marketing Technology & Innovation .....	3
TECHCOMM 5004 Managing Risk.....	3
TECHCOMM 5008 Leading and Managing.....	3
TTECHCOMM 5015 Project and Innovation Finance and Accounting .....	3
TECHCOMM 5021 Applied Project Management I .....	3
TECHCOMM 7022 Creativity and Innovation.....	3
TECHCOMM 7028 Managing Strategy & Growth.	3

With permission from the Program Coordinator, an elective may be chosen from any postgraduate course taught by the Entrepreneurship, Commercialisation and Innovation Centre (ECIC).

### 4.3 Unacceptable combination of courses

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

#### 4.4 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.

## 1 Duration of program

Except with the permission of the Faculty, the Graduate Certificate in Marine Engineering shall be completed in a minimum of one semester or a maximum of four semesters.

## 2 Admission

- 2.1 Except as provided for in 2.2 below, an applicant for admission to the program shall have qualified for:
- a a three year degree of the University of Adelaide in a relevant discipline or a degree of another institution accepted by the Faculty of Engineering, Computer and Mathematical Sciences as being equivalent, and have not less than two year's full-time (or part-time equivalent) work experience in a relevant field, *or*
  - b a four year degree in a relevant engineering discipline from the University, or a degree from another institution accepted by the Faculty of Engineering, Computer and Mathematical Sciences as being equivalent.
- 2.2 The Faculty may, in exceptional circumstances and subject to such conditions (if any) as it may see fit to impose, accept as a candidate for the degree of Graduate Certificate in Marine Engineering, a person who does not qualify in 2.1 above, but has given evidence satisfactory to the Faculty of fitness to undertake work for the degree.

### 2.3 Status or exemption

A candidate may not present for credit towards the degree any course which has been presented for any other award of this University or other institution, or which in the opinion of the Faculty is substantially similar to such course. Such a candidate will be required to undertake an alternative course as approved by the Head of School or nominee.

## 3 Assessment and examinations

- 3.1 There shall be four classifications of pass in any course for the Master Marine Engineering: Pass with High Distinction, Pass with Distinction, Pass with Credit, and Pass. Courses passed with a Conceded Pass classification may not be counted towards the requirements for the degree of Graduate Certificate in Marine Engineering.
- 3.2 A candidate shall not be eligible to attend for examination unless any prescribed coursework has been completed to the satisfaction of the teaching staff concerned.

- 3.3 A candidate who fails in a course and desires to take the course again shall again attend the course and satisfactorily do such written and practical work as the teaching staff concerned may prescribe, unless specifically exempted therefrom after written application to the Faculty for such exemption.
- 3.4 A candidate who has twice failed any course may not enrol for that course again except by special permission of the Faculty and then only under such conditions as may be prescribed.
- 3.5 For the purpose of this Rule, a candidate who is refused permission to sit for the assessment for a given course, or who without a reason accepted by the Executive Dean of the Faculty (or nominee) fails to attend all or part of the assessment, shall be deemed to have failed that course.

## 4 Qualification requirements

- 4.1 To qualify for the degree of Graduate Certificate in Marine Engineering, a candidate shall satisfactorily complete courses to a total value of at least 12 units including:
- a
    - i core courses to the value of 9 units from 4.2.1 (a) or (b)
    - ii at least one course selected from a stream in 4.2.2.
  - b at least 9 units of study must be taken from courses taught by the University of Adelaide.

Candidates must have their program of studies approved by the Postgraduate Coordinator or nominee at enrolment.

### 4.2 Academic program

#### 4.2.1 Core Courses

- a **Submarine**
  - University of Adelaide**
  - MECH ENG 7042 Introduction to Submarine Design.....3
  - MECH ENG 7046 Submarine Design 102.....3
  - University of South Australia**
  - Systems Engineering for Complex Problem Solving.....3
  - or*
  - TECH COMM 5013 Systems Engineering I\* ..3
  - \* Only with permission of the Faculty.
- c **Naval Ships**
  - University of Adelaide**
  - MECH ENG 7048 Introduction to Naval Ship Design.....3

## University of South Australia

Systems Engineering for Complex Problem Solving .....3  
A further course in Naval Ships stream will be available in 2010.

### 4.2.2 Foundation streams

#### a Hull Stream

##### University of Adelaide

MECH ENG 7020 Materials Selection & Failure Analysis.....3  
MECH ENG 7023 Fracture Mechanics.....3  
MECH ENG 7025 Topics in Welded Structures .....3  
MECH ENG 7043 Stresses in Plates and Shells .....3

#### b Electrical Stream

##### University of Adelaide

ELEC ENG 7048 Principles of Control Systems .....3  
ELEC ENG 7049 Power Electronics Systems .3  
ELEC ENG 7069 Electrical Energy Systems ...3  
MECH ENG 7027 Engineering Acoustics .....3

#### c Mechanical Stream

##### University of Adelaide

MECH ENG 7020 Materials Selection and Failure Analysis.....3  
MECH ENG 7030 Advanced Vibrations .....3  
MECH ENG 7059 Finite Element Analysis of Structures.....3

##### Australian Maritime College

Design of Marine Machinery Systems.....3

#### d University of Adelaide

ELEC ENG 7065 Sonar Sensors & Systems....3  
MECH ENG 7027 Engineering Acoustics .....3  
MECH ENG 7030 Advanced Vibrations .....3

##### Curtin University

Physical and Acoustical Oceanography.....3

#### e Systems Engineering Stream

##### University of Adelaide

TECHCOMM 7029 Systems Engineering 2 ....3

##### University of South Australia

Military Systems - Operational and Technological Integration .....3  
Requirements Engineering .....3  
Principles of Test Evaluation N.....3

### 4.3 Unacceptable combination of courses

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

### 4.4 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 Certificate in Mathematical Signal and Information Processing

## 1 Duration of program

Except with the permission of the Faculty, the Graduate Certificate in Mathematical Signal Information Processing shall be completed in a minimum of one semester or a maximum of four semesters.

## 2 Admission

2.1 Except as provided for in 2.3 an applicant for admission to the program of study for the Graduate Certificate shall:

- a have qualified for a degree in the field of Electrical and Electronic Engineering, Mathematics or Physics either from, *or*
- b accepted by the University of Adelaide as equivalent *or*

2.2 have qualified for a degree in other areas of Engineering, or a related scientific area acceptable to the Board of Studies.

A person admitted under this sub-rule will normally be required satisfactorily to complete some initial bridging studies as deemed necessary by the Faculty, in addition to satisfying the requirements of the Graduate Certificate.

2.3 subject to the approval of the Council, the Board of Studies may, in special cases and subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the Certificate a person who does not qualify for admission under 2.1 or 2.2 but who has given evidence satisfactory to the Board of fitness to undertake work for the Certificate.

## 3 Assessment and examination

### 3.1 Academic progress

If in the opinion of the Board of Studies a candidate for the Graduate Certificate is not making satisfactory progress, the Faculty may, with the consent of the Council, terminate the candidature.

## 4 Qualification requirements

4.1 To qualify for the degree a candidate shall:

- a comply with conditions as prescribed in the Academic Program Rules *and*
- b pass such examinations on the candidate's program of advanced study as may be required by the Board of Studies.

## 4.2 Unacceptable combinations of courses

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

## 4.3 Academic program

4.3.1 A candidate for the Graduate Certificate shall regularly attend lectures and tutorials, do such written and practical work as may be prescribed, and satisfactorily complete courses to the value of at least 12 units as defined in 4.3.2.

4.3.2 The program of study to the value of at least 12 units shall consist of courses selected from:

ELEC ENG 7059 Radar Principles and Systems - An introduction .....	3
SIP 7001 Information Theory.....	3
SIP 7002 Kalman Filtering and Tracking .....	3
SIP 7004 Mobile Communications.....	3
SIP 7005 Multisensor Data Fusion .....	3
SIP 7012 Detection, Estimation and Classification .....	3
SIP 7013 Introduction to Discrete Linear Systems .....	3
SIP 7015 Signal Synthesis and Analysis .....	3
SIP 7017 Specialised Studies A*.....	3
SIP 7018 Specialised Studies B*.....	3
SIP 7019 Specialised Studies C*.....	3
SIP 7020 Specialised Studies D* .....	3
SIP 7023 Satellite Communications .....	3
SIP 7024 Adaptive Signal Processing.....	3
SIP 7025 Beamforming and Array Processing .....	3
SIP 7026 Mathematical Coding and Cryptology.....	3
SIP 7030 Image Sensors and Processing .....	3
SIP 7031 Sonar Sensors and Systems.....	3

\* Specialised Studies may consist of directed readings or short courses as approved by the Faculty. The content and assessment of these courses will be determined in each case by the academic coordinator of the program in consultation with the student's supervisor and the student.

Note: Intending students should consult the program coordinator early in the year in which they plan to study in order to ascertain whether particular courses will be available in that year and in which semester courses will be taught.

- 4.3.3 Candidates who have been granted exemption from one or more of the courses listed in 4.3.2 may select in their place relevant courses from other courses offered by the University of Adelaide or other tertiary institutions in South Australia as may be approved by the Board of Studies.

#### **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 Board of Studies special circumstances exist, the Council, on the recommendation of the Board in each case, may vary any of the provisions of the Academic Program Rules for any particular award.



# Graduate Certificate in Petroleum Geology and Geophysics

## 1 Duration of program

Except with the permission of the Faculty the program for the Graduate Certificate in Petroleum Geology and Geophysics shall be completed in at least one semester of full-time study or at least two semesters of part-time study.

## 2 Admission

2.1 An applicant for admission to the program of study for the Graduate Certificate shall:

- a have qualified for the degree of Bachelor of Science of the University with a major sequence in Geology or Geophysics, or hold qualifications from another institution accepted by the Faculty for the purpose  
*and*
- b have obtained the approval of the Head, Australian School of Petroleum.

2.2 Subject to the approval of the Council the Faculty may, in special cases and subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the Graduate Certificate a person who does not qualify for admission to the program under 2.1 above but has given evidence satisfactory to the Faculty of their fitness to undertake work for the Graduate Certificate.

## 3 Assessment and examinations

3.1 There shall be the following classifications of Pass in each course for the graduate certificate: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

- 3.2 a A candidate who fails in 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, unless specifically exempted therefrom after written application for such exemption.
- b A candidate who has twice failed the examination in any course or division of a course may not enrol for that course again except by special permission to be obtained in writing and then only under such conditions as may be prescribed.
- c For the purpose of this Rule, a candidate who is refused permission to sit for examination, or who fails, without a reason accepted by the Executive Dean of Sciences (or nominee), to attend all or part of a final examination (or

supplementary examination if granted) after remaining enrolled for at least nine teaching weeks of that semester, shall be deemed to have failed the examination.

## 4 Qualification requirements

A candidate for the Graduate Certificate shall regularly attend lectures and tutorials, do such written work and practical work as may be prescribed, and pass examinations in courses to the value of 12 units.

### 4.1 Academic program

4.1.1 The following shall be the courses for the Graduate Certificate in Petroleum Geology and Geophysics:

PETROL 7000 Petroleum Geology & Geophysics (B).....	6
PETROL 7001 Petroleum Geology & Geophysics (A).....	6

4.1.2 The Faculty may require a candidate to undertake additional work needed as background to the program.

### 4.2 Unacceptable combinations of courses

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

### 4.3 Graduation

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

## 5 Special circumstances

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



# Graduate Certificate in Project Management

## 1 Duration of program

Except with the permission of the Faculty, the Graduate Certificate in Project Management shall be completed in a minimum of one semester or a maximum of four semesters.

## 2 Admission

2.1 An applicant for admission to the academic program for the Graduate Certificate in Project Management shall have qualified for a degree of the University or a degree of another institution accepted by the Faculty for the purpose as equivalent to a degree of the University.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the Graduate Certificate in Project Management a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the Graduate Certificate.

## 2.3 Status, exemption and credit transfer

Candidates who have previously passed courses in postgraduate awards or equivalent at the University of Adelaide or another university and who wish to count such courses towards the Graduate Certificate in Project Management may, on written application to the Faculty, be granted such status as the Faculty shall determine, to a maximum aggregate value of six (6) units.

## 2.4 Articulation with other awards

A candidate for the Master of Project Management who does not complete the requirements for the Masters degree but satisfies the requirements for the Graduate Certificate may be admitted to that degree as appropriate.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Graduate Certificate: Pass with High Distinction; Pass with Distinction; Pass with Credit; and Pass.

3.2 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.

3.3 A candidate who fails a course and wishes to repeat that course, shall, unless exempted partially there from by the Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

3.4 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

3.5 For the purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

## 4 Qualification requirements

4.1 To qualify for the Graduate Certificate, a candidate shall satisfactorily complete courses to the value of 12 units comprising 9 units from the list of core courses and 3 units of elective courses:

### 4.1.1 Core courses

TECHCOMM 5004 Managing Risk.....	3
TECHCOMM 5015 Project and Innovation Finance and Accounting.....	3
TECHCOMM 5021 Applied Project Management 1 .....	3

### 4.1.2 Elective courses

GEOLOGY 7002 Mineral Exploration for Project Managers .....	3
TECHCOMM 5002 Managing Product Design and Development .....	3
TECHCOMM 5008 Leading and Managing.....	3
TECHCOMM 5010 Technology Project Management .....	3
TECHCOMM 5012 Integrated Logistic Support....	3
TECHCOMM 5013 Systems Engineering .....	3
TECHCOMM 5014 Project Management Techniques .....	3
TECHCOMM 5016 Entrepreneurship and Innovation .....	3
TECHCOMM 5018 Opportunity Assessment .....	3
TECHCOMM 5024 Project Management Project (3 units).....	3
TECHCOMM 5026 Applied Project Management 2 .....	3
TECHCOMM 5027 Business and Project Creation .....	3
TECHCOMM 7012 Business and Contract Legal Studies .....	3
TECHCOMM 7023 Carbon Impact and Strategy ..	3
TECHCOMM 7024 Complex Project Management 1 .....	3
TECHCOMM 7025 Introduction to Climate Change .....	3
TECHCOMM 7029 Systems Engineering 2 .....	3

TECHCOMM 7030 Logistics and Supply Chain Management .....	3
TECHCOMM 7031 Introduction to Mineral Processing .....	3
TECHCOMM 7033 Ongoing Carbon Management .....	3
TECHCOMM 7034 Mine Management and Safety .....	3

Note: students should discuss their choice of courses with the Program Coordinator

#### **4.2 Unacceptable combination of courses**

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

#### **4.3 Graduation**

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

### **5 Special circumstances**

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



# Graduate Certificate in Science and Technology Commercialisation

## 1 Duration of program

Except with the permission of the Faculty, the work for the Graduate Certificate in Science and Technology Commercialisation shall be completed in a minimum of one semester or a maximum of four semesters.

## 2 Admission

2.1 Except as provided for in 2.2 below, a candidate for admission to the program of study for the Graduate Certificate shall have qualified for admission to a degree of the University or for a degree of another institution accepted for the purpose by the Faculty.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the Graduate Certificate a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the Graduate Certificate.

### 2.3 Status, exemption and credit transfer

Candidates who have previously passed courses in postgraduate awards or equivalent in the University of Adelaide or another university and who wish to count such courses towards the Graduate Certificate in Science and Technology Commercialisation may, on written application to the Faculty, be granted such status as the Faculty shall determine, to a maximum aggregate value of three (3) units. Courses completed more than five years prior to application to Faculty will not be considered.

### 2.4 Articulation with other awards

A candidate for the Graduate Diploma, or the Master, or the Master (Advanced) of Science and Technology Commercialisation who does not complete the requirements for the Graduate Diploma or the Masters, or the Masters (Advanced) degree but satisfies the requirements for the Graduate Certificate may be admitted to the Graduate Certificate in Science and Technology Commercialisation.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Graduate Certificate: Pass with High Distinction; Pass with Distinction; Pass with Credit; and Pass.

3.2 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.

3.3 A candidate who fails a course and wishes to repeat that course, shall, unless exempted partially therefrom by the Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

3.4 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

3.5 For the purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the Graduate Certificate, a candidate shall satisfactorily complete courses to the value of 12 units of which at least 9 are core courses.

#### 4.1.1 Core courses

TECHCOMM 5001 Marketing Technological Innovation .....	3
TECHCOMM 5002 Managing Product Design and Development .....	3
TECHCOMM 5003 Strategic Analysis for Technology Commercialisation .....	3
TECHCOMM 5005 Financing Commercialisation ..	3
TECHCOMM 5006 Technology Management and Transfer .....	3
TECHCOMM 5007 Legal Issues of the Commercialisation Process .....	3
TECHCOMM 5008 Leading and Managing .....	3
TECHCOMM 5011 Internationalisation of Technology .....	3

#### 4.1.2 Elective courses

Any postgraduate course taught by the Entrepreneurship, Commercialisation and Innovation Centre (EICIC) except for:

TECHCOMM 5025 Commercialisation: Process and Strategy .....	3
TECHCOMM 5027 Business & Project Creation ..	3

#### **4.2 Unacceptable combination of courses**

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

#### **4.3 Graduation**

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

### **5 Special circumstances**

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

## 1 Duration of program

Except with the permission of the Faculty, the Graduate Certificate in Sciences (Defence) shall be completed in a minimum of one semester or a maximum of four semesters.

## 2 Admission requirements

- 2.1 Except as provided for in 2.2 below, an applicant for admission to the program shall:
- a have qualified for a degree from the University of Adelaide (or equivalent) in a discipline related to the proposed field of study *and*
  - b shall have had at least 18 months' employment experience in a defence-related industry.
- 2.2 The Board of Studies may, in exceptional circumstances and subject to such conditions (if any) as it may see fit to impose, accept as a candidate for the award of Graduate Certificate in Sciences (Defence), a person who does not qualify under 2.1 above, but has given evidence satisfactory to the Board of fitness to undertake work for the degree.

## 2.3 Status or exemption

A candidate may not present for credit towards the award any course which has been presented as part of the requirements for any other award of this University or other institution, or which in the opinion of the Faculty is substantially similar to such course.

## 3 Assessment and examinations

- 3.1 There shall be four classifications of pass in any course for the Graduate Certificate in Sciences (Defence): Pass with High Distinction, Pass with Distinction, Pass with Credit, and Pass. Courses passed with a conceded pass classification may not be counted towards the requirements for the award of Graduate Diploma in Sciences (Defence).
- 3.2 A candidate shall not be eligible to attend for examination unless any prescribed coursework has been completed to the satisfaction of the teaching staff concerned.
- 3.3 A candidate who fails in a course and desires to take the course again shall again attend the course and satisfactorily do such written and practical work as the teaching staff concerned may prescribe, unless specifically exempted therefrom after written application to the Board of Studies for such exemption.
- 3.4 A candidate who has twice failed any course may not enrol for that course again except by special permission of the Board of Studies and then only under such conditions as may be prescribed.

- 3.5 For the purpose of this Rule, a candidate who is refused permission to sit for the assessment for a given course, or who without a reason accepted by the Convenor of the Board of Studies (or nominee) fails to attend all or part of the assessment, shall be deemed to have failed that course.

## 4 Qualification requirements

- 4.1 To qualify for the award of Graduate Certificate in Sciences (Defence), a candidate shall satisfactorily complete courses from the following list to a total value of at least 12 units. These must include the 3-unit core course from Group A.
- 4.2 Candidates may present courses offered by other universities from a register of approved courses maintained by the Board of Studies, but the total value of these external courses must not exceed 6 units (including the core course).
- Candidates must have their proposed program of studies approved by the Convenor of the Board of Studies or nominee at enrolment.

### Group A: Core course

This course is offered by the University of South Australia:

Systems Engineering for Complex Problem Solving.....3

### Group B: Defence technology stream

DEFSCI 7005 Principles of Control Systems.....3  
 DEFSCI 7006 Antennas and Propagation.....3  
 DEFSCI 7007 Principles of RF Engineering.....3  
 DEFSCI 7029 Kalman Filtering and Tracking.....3  
 DEFSCI 7035 Detection, Estimation and Classification.....3  
 DEFSCI 7203 Photonics IV-D.....3  
 DEFSCI 7204 Photonics III-D.....3  
 DEFSCI 7206 Physical Optics III-D.....3  
 DEFSCI 7207 Sonar Sensors and System.....3

Note: Special conditions apply to choosing courses with a Photonics theme. There is a preferred sequence within these courses, and candidates should seek guidance on their enrolment pattern. Electromagnetics III contains material which is assumed knowledge in the remaining courses, and should be taken by candidates without this specialist undergraduate Physics background. Further Photonics options may become available.

### Group C: Information and communication technology stream

DEFSCI 7000 Cognitive Science: Minds, Brains and Computers .....3



DEFSCI 7001 Decision Making in Real Environments .....	3
DEFSCI 7002 Distributed Systems .....	3
DEFSCI 7003 Artificial Intelligence.....	3
DEFSCI 7009 Modelling Telecommunication Traffic .....	3
DEFSCI 7019 Statistics in Engineering .....	3
DEFSCI 7022 Multimedia Communications.....	3
DEFSCI 7023 Photonics for Communications .....	3
DEFSCI 7028 Information Theory.....	3
DEFSCI 7035 Detection, Estimation and Classification.....	3
DEFSCI 7042 Computer Networks and Applications .....	3
DEFSCI 7043 Communication Networks Design...	3
DEFSCI 7044 Adaptive Business Intelligence.....	3
DEFSCI 7060 Computer Vision.....	3
DEFSCI 7061 Evolutionary Computation.....	3
DEFSCI 7063 Transform Methods & Signal Processing .....	3
DEFSCI 7210 Human Factors and Ergonomics .....	3

The availability of all elective courses is conditional on the availability of staff and facilities and sufficient enrolments.

Other relevant courses may be presented towards the requirements of the Graduate Certificate in Sciences (Defence) with the written approval of the Convenor of the Board of Studies.

#### 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 Board of Studies, 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 Board of Studies special circumstances exist, the Council, on the recommendation of the Board in each case, may vary any of the provisions of the Academic Program Rules for any particular award.



# Graduate Certificate in Sciences (Defence Signal and Information Processing)

## 1 Duration of program

Except with the permission of the Faculty, the Graduate Certificate in Sciences (Defence Signal and Information Processing) shall be completed in a minimum of one semester or a maximum of four semesters.

## 2 Admission

2.1 Except as provided for in 2.2 an applicant for admission to the program of study for the Graduate Certificate shall have qualified for an Honours award in Mathematics, Physics or in Electrical and Electronic Engineering; or a Bachelor award that includes a major in either Mathematics or Physics, or for an equivalent degree accepted for the purpose by the University, plus some experience in the Defence industry.

2.2 The Board of Studies may, in exceptional circumstances and subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the degree a person who does not qualify under 2.1 but who has given evidence satisfactory to the Board of fitness to undertake work for the degree.

### 2.3 Credit transfer

2.3.1 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.

2.3.2 Candidates may present courses offered by other universities from a register of approved courses maintained by the Board of Studies, but the total value of these external courses must not exceed 6 units (including the core course).

## 3 Assessment and examination

### Academic progress

If in the opinion of the Board of Studies a candidate for the degree is not making satisfactory progress, the Faculty may terminate the candidature.

## 4 Qualification requirements

4.1 To qualify for the degree a candidate shall satisfactorily complete courses from the following list to a total value of a total of at least 12 units as defined in 4.2.1.

## 4.2 Academic program

4.2.1 The program of study and project work to the value of at least 12 units shall consist of:

### i Compulsory course<sup>†</sup>

Systems Engineering for Complex Problem Solving..... 3

ii courses to the value of at least 6 units selected from:

DEFSCI 7011 Adaptive Signal Processing ..... 3

DEFSCI 7012 Multisensor Data Fusion..... 3

DEFSCI 7028 Information Theory..... 3

DEFSCI 7029 Kalman Filtering and Tracking... 3

DEFSCI 7035 Detection, Estimation and Classification ..... 3

DEFSCI 7036 Introduction to Discrete Linear Systems ..... 3

DEFSCI 7041 Image Sensors & Processing ... 3

<sup>†</sup> Offered by the University of South Australia

iii courses to the value of at least 3 units selected from:

a courses listed in 4.2.1 (ii)

*or*

b from the following courses

DEFSCI 7015 Mathematical Coding & Cryptology ..... 3

DEFSCI 7028 Information Theory ..... 3

DEFSCI 7030 Error Control Coding ..... 3

DEFSCI 7031 Mobile Communications ..... 3

DEFSCI 7037 Signal Synthesis and Analysis ..... 3

DEFSCI 7038 Specialised Studies D ..... 3

DEFSCI 7039 Satellite Communications... 3

DEFSCI 7060 Computer Vision ..... 3

DEFSCI 7063 Transform Methods and Signal Processing \* ..... 3

\* DEFSCI 7037 and 7063 cannot both be presented

Specialised Studies may consist of directed readings or approved short courses as approved by the Faculty. The content and assessment of these courses will be determined in each case by the academic coordinator of the course in consultation with the student's supervisor and the student.

c other relevant courses as approved by the Board of Studies from other postgraduate programs of the University.

- 4.2.2 Students who are required to undertake preliminary work will normally enrol in one of the following courses:
- SIP 7027 A/B Qualifying Studies in Mathematics Part 1 & 2 ..... 12
- SIP 7028 Qualifying Studies in Mathematics..... 12
- On satisfactory completion of this work the student will proceed to study as outlined in 4.2.1 above.
- 4.2.3 Candidates who are granted exemption from one or more of the courses listed in 4.2.1 (ii) on the basis of previous studies may select in their place other relevant courses offered by the University of Adelaide or other tertiary institutions in South Australia as may be approved by the Faculty.
- 4.2.4 The availability of all courses is conditional on there being adequate staffing and resources.

### 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 Board of Studies special circumstances exist, the Board in each case may vary any of the provisions of the Academic Program Rules for any particular award.



# Graduate Certificate in Social Entrepreneurship and Innovation

## 1 Duration of Program

Except with the permission of the Faculty, the Graduate Certificate in Social Entrepreneurship and Innovation shall be completed in a minimum of one semester or a maximum of four semesters.

## 2 Admission

- 2.1 An applicant for admission to the academic program for the Graduate Certificate in Social Entrepreneurship and Innovation shall have qualified for the degree of the University or a degree of another institution accepted by the Faculty for the purpose as equivalent to a degree of the University.
- 2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the Graduate Certificate in Social Entrepreneurship and Innovation a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the Graduate Certificate.
- 2.3 **Status or Credit Transfer**  
Candidates who have previously passed courses in postgraduate awards or equivalent in the University of Adelaide or another university and who wish to count such courses towards the Graduate Certificate in Social Entrepreneurship and Innovation may, on written application to the Faculty, be granted such status as the Faculty shall determine, to a maximum aggregate value of three (3) units.

## 3 Assessment and Examinations

- 3.1 There shall be four classifications of pass in any course for the Graduate Certificate: Pass with High Distinction; Pass with Distinction; Pass with Credit; and Pass.
- 3.2 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.
- 3.3 A candidate who fails a course and wishes to repeat the course, shall, unless exempted partially therefrom by the Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.
- 3.4 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

- 3.5 For the purpose of the Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

## 4. Qualification Requirements

### 4.1 Academic Program

To qualify for the Graduate Certificate, a candidate shall satisfactorily complete courses to the value of 12 units of which 6 are core courses.

#### 4.1.1 Core Courses

TECHCOMM 5016 Entrepreneurship and Innovation .....	3
TECHCOMM 7019 Social Entrepreneurship .....	3

#### 4.1.2 Elective Courses

At least 6 units of courses chosen from recommended electives:

TECHCOMM 7014 Social Venture Funding.....	3
TECHCOMM 7027 Foresight and Social Change..	3
TECHCOMM 5018 Opportunity Assessment .....	3
TECHCOMM 5015 Project and Innovation Finance and Accounting.....	3
TECHCOMM 5001 Marketing Technology and Innovation .....	3
TECHCOMM 5021 Applied Project Management 1 .....	3
TECHCOMM 7022 Creativity and Innovation.....	3

or from other available courses listed within the Academic Program Rules for the GC Project Management, GC Science and Technology Commercialisation and GC Innovation and Entrepreneurship.

### 4.2 Unacceptable Combination of Courses

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

### 4.3 Graduation

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

## **5 Special Circumstances**

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



# Graduate Certificate in Water Resources Management

## 1 Duration of program

Except with the permission of the Faculty, the Graduate Certificate in Water Resources Management shall be completed in a minimum of one semester or a maximum of four semesters.

## 2 Admission

2.1 Except as provided for in 2.2 below, an applicant for admission to the program shall have qualified for:

a a Bachelor degree with Honours from the University of Adelaide in an Engineering or Science discipline related to the proposed field of study, or a degree of another institution accepted by the Faculty of Engineering, Computer and Mathematical Sciences as being equivalent

*or*

b at least a three-year degree of the University or a degree of another institution accepted by the Faculty for the purpose as equivalent to a three-year (or more) degree of the University and have professional work experience to an appropriate level as assessed at the discretion of the Faculty.

2.2 The Faculty may, in exceptional circumstances and subject to such conditions (if any) as it may see fit to impose, accept as a candidate for the degree of Graduate Certificate in Water Resources Management, a person who does not qualify in 2.1 above, but has given evidence satisfactory to the Faculty of fitness to undertake work for the degree.

### 2.3 Status or exemption

A candidate may not present for credit towards the award any course which has been presented as part of the requirements for any other award of this University or other institution, or which in the opinion of the Faculty is substantially similar to such course.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Graduate Certificate in Water Resources Management: Pass with High Distinction, Pass with Distinction, Pass with Credit, and Pass. Courses passed with a Conceded Pass classification may not be counted towards the requirements for the degree of Graduate Certificate in Water Resources Management.

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

3.3 A candidate who fails in a course and desires to take the course again shall again attend the course and satisfactorily do such written and practical work as the teaching staff concerned may prescribe, unless specifically exempted therefrom after written application to the Faculty for such exemption.

3.4 A candidate who has twice failed any course may not enrol for that course again except by special permission of the Faculty and then only under such conditions as may be prescribed.

3.5 For the purpose of this Rule, a candidate who is refused permission to sit for the assessment for a given course, or who without a reason accepted by the Executive Dean of the Faculty (or nominee) fails to attend all or part of the assessment, shall be deemed to have failed that course.

## 4 Qualification requirements

4.1 To qualify for the degree of Graduate Certificate in Water Resources Management, a candidate shall satisfactorily complete studies to a total value of at least 12 units of which at least 6 units must be chosen from 4.2 (a) and the balance from 4.2(b)

At least 6 units of study must be undertaken from courses offered by The University of Adelaide

Candidates must have their program of studies approved by the Postgraduate Coordinator or nominee at enrolment.

### 4.2 Academic program

- a A candidate shall satisfactorily complete at least 2 of the following courses:
- |  |   |
|--|---|
| WRM 7000 Global Water Systems I (Natural Water Cycle).....     | 3 |
| WRM 7002 Global Water Systems II (Engineered Water Cycle)..... | 3 |
| WRM 7003 Water Resources and Society ....                      | 3 |
| WRM 7004 Water Resources Planning & Management .....           | 3 |
- b Elective courses from 4.3 of the Graduate Diploma in Water Resources Management.

### 4.3 Unacceptable combination of courses

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

#### **4.4 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 Diploma in Applied Statistics

**Note: There will be no intake into this program in 2009.**

## 1 Duration of program

Except with the permission of the Faculty, the Graduate Diploma in Applied Statistics shall be completed in a minimum of two semesters or a maximum of eight semesters.

## 2 Admission

- 2.1 Except as provided for in 2.2 a candidate for admission to the program for the Graduate Diploma shall have qualified for admission to a degree of the University or to a degree of another university accepted for the purpose by the University and have obtained the approval of the Faculty.
- 2.2 Subject to the approval of the Council the Faculty may, in special cases and subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the Graduate Diploma a person who does not hold a degree of a university but has given evidence satisfactory to the Faculty of his fitness to undertake work for the diploma.
- 2.3 Applicants for the Graduate Diploma will be expected to have knowledge of mathematics and statistics equivalent to that which would be obtained by passing Mathematics IA and IB and Statistical Practice 1 as offered by the University of Adelaide.

## 3 Assessment and examinations

- 3.1 There shall be four classifications of pass in each course for the diploma; Pass with High Distinction, Pass with Distinction, Pass with Credit, and Pass.
- 3.2 A candidate who fails to pass in 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, unless specifically exempted therefrom after written application to the Faculty for such exemption.
- 3.3 A candidate who has twice failed to pass the examination in any course or division of a course may not enrol for that course again except by special permission to be obtained in writing from the Faculty and then only under such conditions as may be prescribed.
- 3.4 For the purpose of this Rule a candidate who is refused permission to sit for examination, or who fails, without a reason accepted by the Head of the Discipline of Statistics as adequate, to attend all or part of a final examination (or supplementary examination if remaining enrolled for at least eight teaching weeks of that semester), shall be deemed to have failed the examination.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the Graduate Diploma, a candidate shall regularly attend lectures and tutorials, do such written work as may be prescribed, and pass examinations in a selection of courses chosen from the following list, to an aggregate value of at least 18 units, with at most 6 units from Level II.

#### 4.1.1 Level II Statistics courses

STATS 7066 Introduction to Mathematical Statistics II .....	2
STATS 7067 Statistical Practice II .....	2
STATS 7068 Statistical Modelling .....	2

#### 4.1.2 Level III Statistics courses

APP MTH 7066 Life Contingencies III .....	3
STATS 7054 Statistical Modelling III .....	3
STATS 7055 Bioinformatics III .....	3
STATS 7056 Biostatistics III .....	3
STATS 7057 Sampling Theory and Practice III .....	3
STATS 7058 Time Series III .....	3
STATS 7059 Mathematical Statistics III .....	3
STATS 7060 Industrial Statistics III .....	2

4.1.3 At most, two of the Level III Applied Mathematics courses:

APP MTH 7056 Telecommunications Systems Modelling .....	3
APP MTH 7065 Applied Probability III .....	3
APP MTH 7072 Optimisation .....	3

4.1.4 Statistics courses listed in 5.3.1 for the degree of Master of Mathematical Sciences.

4.1.5 Other Statistics courses which may be offered from time to time by the School of Mathematical Sciences and the Biometry Section (Waite Campus) of the University of Adelaide.

#### 4.1.6 Compulsory project

STATS 7064 Statistics Diploma Project..... 6  
In addition to the course work each student will be expected to complete a project chosen in consultation with and supervised by a supervisor from the Discipline of Statistics.

4.2 On the recommendation of the Head of the Discipline of Statistics the Faculty may exempt a candidate from the need to satisfy the prerequisites prescribed for the course.



#### **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 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 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 Diploma in Computer Science

## 1 Duration of program

Except with the permission of the Faculty, the Graduate Diploma in Computer Science shall be completed in a minimum of two semesters or a maximum of eight semesters.

## 2 Admission

2.1 Except as provided for in 2.2 a candidate for admission to the program for the Graduate Diploma shall have qualified for admission to a degree of the University in a field other than Computer Science, or to a degree of another university accepted for the purpose by the University and have obtained the approval of the School of Computer Science.

2.2 Subject to the approval of the Council the Faculty may, in special cases and subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the Graduate Diploma a person who does not hold a degree of a university but has given evidence satisfactory to the Faculty of fitness to undertake work for the Graduate Diploma.

## 2.3 Status and credit transfer

2.3.1 Subject to 2.4.1 below, no candidate will be permitted to count for the Graduate Diploma in Computer Science any course that in the opinion of the School contains substantially the same material as any other course which the candidate has presented already for another qualification.

2.3.2 A candidate who has passed courses in other educational institutions may, on written application, be granted such exemption from the requirements of these rules as the Faculty shall determine. Status may be granted for a maximum of 3 units under 4.1 of the Academic Program Rules.

## 2.4 Articulation with other awards

2.4.1 A candidate who has been enrolled for the Graduate Certificate at the University of Adelaide and who has not been awarded the Graduate Certificate shall, on written application, be permitted to transfer all equivalent courses towards the Graduate Diploma degree.

2.4.2 A candidate who holds the Graduate Certificate in Computer Science from the University of Adelaide shall surrender the Graduate Certificate before being awarded the Graduate Diploma.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass at an examination in any course for the Graduate Diploma: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 A candidate who fails to pass in a course and desires to take the course again shall again attend lectures and satisfactorily do such written and practical work as the professor or lecturer concerned may prescribe, unless specifically exempted therefrom after written application to the Faculty for such exemption.

3.3 A candidate who has twice failed to pass the examination in any course or division of a course may not enrol for that course again except by special permission to be obtained in writing from the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

### 4.1 Academic Program

A candidate for the Graduate Diploma shall regularly attend lectures and tutorials, do such written work as shall be prescribed, and pass examinations in courses offered by the School of Computer Science to the value of at least 24 units comprising at least 9 units of Level II and at least 12 units of Level III courses including COMP SCI 7015 Software Engineering and Project.

#### 4.1.1 Level II

COMP SCI 7080 Computer Science Concepts.....	3
COMP SCI 7081 Computer Systems .....	3
COMP SCI 7082 Data Structures and Algorithms..	3
COMP SCI 7083 Database and Information Systems .....	3
COMP SCI 7084 Introduction to Software Engineering.....	3
COMP SCI 7085 Numerical Methods .....	3
COMP SCI 7088 Systems Programming in C and C++ .....	3
COMP SCI 7097 Communication & Study Skills ....	3

#### 4.1.2 Level III

COMP SCI 7006 Programming Techniques .....	3
COMP SCI 7015 Software Engineering and Project.....	3
COMP SCI 7026 Computer Architecture .....	3
COMP SCI 7031 Advanced Programming Paradigms .....	3
COMP SCI 7039 Computer Networks & Applications .....	3
COMP SCI 7059 Artificial Intelligence.....	3
COMP SCI 7064 Operating Systems .....	3
COMP SCI 7076 Distributed Systems .....	3

COMP SCI 7089 Event Driven Computing .....3  
COMP SCI 7090 Computer Graphics .....3

Subject to permission from the Head of the School of Computer Science (or nominee) a student may also undertake a selection of non-project courses from the Academic Program Rules for the degree of Master of Computer Science.

4.2 On the recommendation of the Head of the School of Computer Science, the Faculty may exempt a candidate from the need to satisfy the prerequisites prescribed for the course.

#### 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 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 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 Diploma in Innovation and Entrepreneurship

## 1 Duration of program

Except with the permission of the Faculty, the Graduate Diploma in Innovation and Entrepreneurship shall be completed in a minimum of two semesters or a maximum of eight semesters.

## 2 Admission

2.1 An applicant for admission to the program for the Graduate Diploma in Innovation and Entrepreneurship shall have qualified for the degree of the University or another institution accepted by the University for the purpose as equivalent, shall have had at least 5 years approved professional work experience.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the Graduate Diploma a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the Graduate Diploma.

## 2.3 Status, exemption and credit transfer

With the exception of the Graduate Certificate in Innovation and Entrepreneurship and Graduate Certificate in Social Entrepreneurship and Innovation (see 2.4 below), candidates who have previously passed courses in postgraduate awards or equivalent at the University of Adelaide or another university and who wish to count such courses towards the Graduate Diploma in Innovation and Entrepreneurship may, on written application to the Faculty, be granted such status as the Faculty shall determine, to a maximum aggregate value of six (6) units. Courses completed more than ten years prior to application to Faculty will not be considered.

## 2.4 Articulation with other awards

A candidate who has been admitted to the Graduate Certificate in Innovation and Entrepreneurship or to the Graduate Certificate in Social Entrepreneurship and Innovation and who wishes to count courses presented for the Graduate Certificate towards the Graduate Diploma must surrender the Graduate Certificate before being admitted to the Graduate Diploma in Innovation and Entrepreneurship.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Graduate Diploma: Pass with High Distinction; Pass with Distinction; Pass with Credit; and Pass. The Diploma Project shall be assessed on a Satisfactory/Unsatisfactory basis.

3.2 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.

3.3 A candidate who fails a course and wishes to repeat that course, shall, unless exempted partially therefrom by the Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

3.4 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

3.5 A candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the Graduate Diploma, a candidate shall satisfactorily complete courses to the value of 24 units of which 18 units are core courses plus elective courses to the value of 6 units from the list given below.

#### 4.1.1 Core courses

TECHCOMM 5001 Marketing Technology and Innovation .....	3
TECHCOMM 5015 Project and Innovation Finance and Accounting .....	3
TECHCOMM 5016 Entrepreneurship and Innovation .....	3
TECHCOMM 5018 Opportunity Assessment .....	3
TECHCOMM 7022 Creativity and Innovation.....	3
TECHCOMM 7028 Managing Strategy and Growth .....	3

#### 4.1.2 Elective courses

TECHCOMM 5002 Managing Product Design and Development .....	3
TECHCOMM 5003 Strategic Analysis for Technology Commercialisation .....	3
TECHCOMM 5004 Managing Risk .....	3
TECHCOMM 5005 Financing Commercialisation ..	3
TECHCOMM 5006 Technology Management and Transfer .....	3
TECHCOMM 5007 Legal Issues of the Commercialisation Process.....	3
TECHCOMM 5008 Leading and Managing.....	3
TECHCOMM 5011 Internationalisation of Technology.....	3

TECHCOMM 5021 Applied Project Management I .....	3
TECHCOMM 7012 Business and Contract Legal Studies .....	3
TECHCOMM 7014 Social Venture Funding.....	3
TECHCOMM 7019 Social Entrepreneurship .....	3

With the permission of the Program Coordinator, any elective may be chosen from any postgraduate course taught by the Entrepreneurship, Commercialisation and Innovation Centre (ECIC).

#### **4.2 Unacceptable combination of courses**

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

#### **4.3 Graduation**

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

### **5 Special circumstances**

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

## 1 Duration of program

Except with the permission of the Faculty, the Graduate Diploma in Marine Engineering shall be completed in a minimum of two semesters or a maximum of eight semesters.

## 2 Admission

2.1 Except as provided for in 2.2 below, an applicant for admission to the program shall have qualified for:

- a a four year degree in a relevant engineering discipline of the University of Adelaide or a degree of another institution accepted by the Faculty of Engineering, Computer and Mathematical Sciences as being equivalent, and have not less than one year full-time (or part-time equivalent) work experience in a relevant field *or*
- b a Graduate Certificate in Marine Engineering.

2.2 The Faculty may, in exceptional circumstances and subject to such conditions (if any) as it may see fit to impose, accept as a candidate for the degree of Graduate Diploma in Marine Engineering, a person who does not qualify in 2.1 above, but has given evidence satisfactory to the Faculty of fitness to undertake work for the degree.

## 2.3 Articulation with other awards

2.3.1 A candidate who has been enrolled for the Graduate Certificate in Marine Engineering at the University of Adelaide and who has not been awarded the Graduate Certificate shall, on written application, be given consideration by the Faculty to transfer all equivalent courses towards the Graduate Diploma.

2.3.2 A candidate who holds the Graduate Certificate in Marine Engineering from the University of Adelaide shall surrender the Graduate Certificate before being awarded the Graduate Diploma.

## 2.4 Status or exemption

A candidate may not present for credit towards the degree any course which has been presented for any other award of this University or other institution, or which in the opinion of the Faculty is substantially similar to such course. Such a candidate will be required to undertake an alternative course as approved by the Head of School or nominee.

A candidate who has passed courses in this or other educational institutions and who has not presented these courses towards an award may, on written application to the Faculty, be granted such exemption from the requirements of these Rules as the Faculty shall determine. Subject to

the conditions specified in Clause 4.1 (b), status may be granted for a maximum of 6 units under Clause 4.2 of the Academic Program Rules.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Master Marine Engineering: Pass with High Distinction, Pass with Distinction, Pass with Credit, and Pass. Courses passed with a Conceded Pass classification may not be counted towards the requirements for the degree of Graduate Diploma in Marine Engineering.

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

3.3 A candidate who fails in a course and desires to take the course again shall again attend the course and satisfactorily do such written and practical work as the teaching staff concerned may prescribe, unless specifically exempted therefrom after written application to the Faculty for such exemption.

3.4 A candidate who has twice failed any course may not enrol for that course again except by special permission of the Faculty and then only under such conditions as may be prescribed.

3.5 For the purpose of this Rule, a candidate who is refused permission to sit for the assessment for a given course, or who without a reason accepted by the Executive Dean of the Faculty (or nominee) fails to attend all or part of the assessment, shall be deemed to have failed that course.

## 4 Qualification requirements

4.1 To qualify for the degree of Graduate Diploma in Marine Engineering, a candidate shall satisfactorily complete courses to a total value of at least 24 units including:

- a i core courses to the value of 9 units from 4.2.1 (a) or (b)
  - ii the remaining courses may be chosen from 4.2.2, 4.2.3 or both of them. Candidates are not obliged to complete all of the courses from a particular stream. However, it is suggested that it may be preferable for a candidate to complete all courses listed within the chosen stream.
- b at least 18 units of study must be taken from courses taught by the University of Adelaide.

Candidates must have their program of studies approved by the Postgraduate Coordinator or nominee at enrolment.

## 4.2 Academic program

### 4.2.1 Core courses

#### a Submarine

##### University of Adelaide

MECH ENG 7042 Introduction to Submarine Design.....3

MECH ENG 7046 Submarine Design 102.....3

##### University of South Australia

Systems Engineering for Complex Problem Solving .....3

or

TECH COMM 5013 Systems Engineering 1\* ..3

\* Only with tpermission of the Faculty.

#### b Naval Ships+

##### University of Adelaide

MECH ENG 7048 Introduction to Naval Ship Design.....3

##### University of South Australia

Systems Engineering for Complex Problem Solving .....3

+ A further course in Naval Ships stream will be available in 2010.

### 4.2.2 Foundation streams

#### a Hull Stream

##### University of Adelaide

MECH ENG 7020 Materials Selection & Failure Analysis.....3

MECH ENG 7023 Fracture Mechanics.....3

MECH ENG 7025 Topics in Welded Structures .....3

MECH ENG 7043 Stresses in Plates and Shells .....3

#### b Electrical Stream

##### University of Adelaide

ELEC ENG 7048 Principles of Control Systems .....3

ELEC ENG 7049 Power Electronics Systems ...3

ELEC ENG 7069 Electrical Energy Systems ...3

MECH ENG 7027 Engineering Acoustics .....3

#### c Mechanical Stream

##### University of Adelaide

MECH ENG 7020 Materials Selection and Failure Analysis.....3

MECH ENG 7030 Advanced Vibrations .....3

MECH ENG 7059 Finite Element Analysis of Structures.....3

##### Australian Maritime College

Design of Marine Machinery Systems.....3

#### d Signature Stream

##### University of Adelaide

ELEC ENG 7065 Sonar Sensors & Systems....3

MECH ENG 7027 Engineering Acoustics .....3

MECH ENG 7030 Advanced Vibrations .....3

##### Curtin University

Physical and Acoustical Oceanography.....3

#### e Systems Engineering Stream

##### University of Adelaide

TECHCOMM 7029 Systems Engineering 2 ....3

##### University of South Australia

Military Systems - Operational and Technological Integration .....3

Requirements Engineering .....3

Principles of Test Evaluation N.....3

### 4.2.3 Electives\*

#### a Hull Stream

##### University of Adelaide

APP MTH 7055 Computational Fluid Dynamics .....3

CHEM ENG 7047 Composites & Multiphase Polymers.....3

MECH ENG 7026 Advanced Topics in Fluid Mechanics .....3

MECH ENG 7059 Finite Element Analysis of Structures.....3

MECH ENG 7061 Corrosion Principles and Prevention.....3

Project in Marine Engineering.....12

*either*

TECHCOMM 5021 Applied Project Management 1 .....3

or

##### RMIT

Risk & Technology Decisions .....3

##### ACA

Coatings Engineering .....3

#### b Electrical Stream

##### University of Adelaide

ELEC ENG 7046 Power Quality & Fault Diagnosis .....3

MECH ENG 7034 Advanced Digital Control ...3

Project in Marine Engineering.....12

*either*

TECHCOMM 5021 Applied Project Management 1 .....3

or

	<b>RMIT</b>		ELEC ENG 7055 Antennas and Propagation...3
	Risk and Technology Decisions.....3		ELEC ENG 7065 Sonar Sensors & Systems...3
	<b>University of South Australia</b>		SIP 7023 Satellite Communications.....3
	Electromagnetic Compatibility.....3		Project in Marine Engineering..... 12
	<b>Curtin University</b>		<i>either</i>
	Marine Acoustics.....3		TECHCOMM 5021 Applied Project
<b>c</b>	<b>Mechanical Stream</b>		Management 1 .....3
	<b>University of Adelaide</b>		<i>or</i>
	APP MTH 7055 Computational Fluid		<b>RMIT</b>
	Dynamics.....3		Risk and Technology Decisions.....3
	MECH ENG 7026 Advanced Topics in Fluid	<b>4.3</b>	<b>Unacceptable combination of courses</b>
	Mechanics 3		No candidate will be permitted to count towards
	MECH ENG 7043 Stresses in Plates		an award any course, together with any other
	and Shells .....3		course, which, in the opinion of the Faculty
	MECH ENG 7060 Mechanical Signature		concerned, contains a substantial amount of the
	Analysis.....3		same material; and no course or portion of a
	Project in Marine Engineering..... 12		course may be counted twice towards an award.
	<i>either</i>	<b>4.4</b>	<b>Graduation</b>
	TECHCOMM 5021 Applied Project		Subject to Chapter 89 of the Statutes, candidates
	Management 1 .....3		who have satisfied the requirements for any award
	<b>RMIT</b>		of the University shall be admitted to that award at
	Risk and Technology Decisions.....3		a graduation ceremony for the purpose.
<b>d</b>	<b>Signature Stream</b>	<b>5</b>	<b>Special circumstances</b>
	<b>University of Adelaide</b>		When in the opinion of the relevant Faculty
	APP MTH 7075 Fluid Mechanics III .....3		special circumstances exist, the Council, on the
	ELEC ENG 7015 Adaptive Signal Processing...3		recommendation of the Faculty in each case,
	ELEC ENG 7017 Beamforming and Array		may vary any of the provisions of the Academic
	Processing .....3		Program Rules for any particular award.
	MECH ENG 7026 Advanced Topics in Fluid		
	Mechanics .....3		
	MECH ENG 7060 Mechanical Signature		
	Analysis.....3		
	Project in Marine Engineering..... 12		
	<i>either</i>		
	TECHCOMM 5021 Applied Project		
	Management 1 .....3		
	<i>or</i>		
	<b>RMIT</b>		
	Risk and Technology Decisions.....3		
	<b>Curtin University</b>		
	Marine Acoustics.....3		
<b>e</b>	<b>Systems Stream</b>		
	<b>University of Adelaide</b>		
	COMP SCI 7076 Distributed Systems .....3		
	ELEC ENG 7017 Beam Forming and Array		
	Processing .....3		
	ELEC ENG 7033 Principles of RF		
	Engineering.....3		
	ELEC ENG 7054 Detection, Estimation		
	and Classification .....3		



## 1 Duration of program

Except with the permission of the Faculty, the Graduate Diploma in Mathematical Sciences shall be completed in a minimum of two semesters or a maximum of eight semesters.

## 2 Admission

- 2.1 Except as provided for in 2.2 an applicant for admission to the program of study for the Graduate Diploma shall:
- have qualified for a degree of the University or for a degree of another institution accepted for the purpose by the University.
  - have obtained the approval of the Faculty of Engineering, Computer and Mathematical Sciences.
- 2.2 Subject to the approval of the Council the Faculty may, in special cases subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the Graduate Diploma a person who does not hold a degree of a university but has given evidence satisfactory to the Faculty of fitness to undertake work for the Graduate Diploma.
2. Applicants for the Graduate Diploma will be expected to have a knowledge of mathematics equivalent to that which would be obtained by passing 4 level II courses offered by the School of Mathematical Sciences (i.e. 8 units).

## 3 Assessment and examinations

- 3.1 There shall be four classifications of pass in each course for the Graduate Diploma: Pass with High Distinction, Pass with Distinction, Pass with Credit, and Pass.
- 3.2 A candidate shall not be eligible to attend for examination unless the prescribed work has been completed to the satisfaction of the teaching staff concerned.
- 3.3 A candidate who fails to pass in 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, unless specifically exempted therefrom after written application to the Faculty for such exemption.
- 3.4 A candidate who has twice failed the examination in any course or division of a course may not enrol for that course again except by special permission to be obtained in writing from the Faculty and then only under such conditions as may be prescribed.
- 3.5 For the purpose of this Rule a candidate who is refused permission to sit for examination, or

who without a reason accepted by the Faculty fails to attend all or part of a final examination (or supplementary examination if granted) after remaining enrolled for at least eight teaching weeks of that semester, shall be deemed to have failed the examination.

## 4 Qualification requirements

- 4.1.1 The Faculty offers the Graduate Diploma in Mathematical Science as a full-time or part-time program to cater for a number of different demands:
- It is designed for graduates with some mathematical training who wish to extend their mathematical knowledge for professional (eg. teachers) or other reasons. The Graduate Diploma allows a flexible program to suit the background of the individual. Thus it may:
    - extend a modest knowledge of mathematics to say the level attained by a graduate with a degree of Bachelor of Mathematical and Computer Sciences *or*
    - at the other extreme provide a program comparable to the level of the Honours degree.
  - Graduates of a University or other institution who have an interest in proceeding to research in some area of the mathematical sciences but lack the preparation necessary may enrol for the Graduate Diploma in Mathematical Science with the view to gaining the background to begin a program at the Masters level either by coursework or by research.
- 4.1.2 Graduates wishing to enrol may consult the Program Coordinator for details of the courses offered preferably in the December of the year preceding their enrolment.
- 4.2 To qualify for the Graduate Diploma, a candidate shall satisfactorily complete work to the value of at least 24 units, of which 18 units must be from studies within Applied Mathematics, Pure Mathematics and/or Statistics. Of these 18 units at least 12 units must be chosen from the following:
- Level III courses in Applied Mathematics, Pure Mathematics and Statistics
  - Courses listed in 5.3.1(c) for the degree of Master of Mathematical Science
  - Project option.
- This option may comprise up to 6 units of the work for the award. The topics and level of such project work will be decided in consultation with a supervisor appointed by the Faculty. The project options are:

APP MTH 7085 Applied Mathematics Diploma Project .....	6
APP MTH 7086 Applied Mathematics Diploma Project .....	3
PURE MTH 7069 Pure Mathematics Diploma Project .....	3
PURE MTH 7070 Pure Mathematics Diploma Project .....	6
STATS 7071 Statistics Diploma Project .....	3
STATS 7074 Statistics Diploma Project .....	6

In addition to courses listed in (a), (b) and (c), courses may be chosen from:

- d those listed in the Calendar for any degree of the University approved for the purpose by the Faculty. Such courses must not comprise more than 8 units of Level II studies and must be approved as relevant to the program of study by the Postgraduate Coordinator.

4.3 Formal approval of enrolment must be obtained from the Program Coordinator.

#### 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 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 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 Diploma in Science and Technology Commercialisation

## 1 Duration of program

Except with the permission of the Faculty, the Graduate Diploma in Science and Technology Commercialisation shall be completed in a minimum of two semesters or a maximum of eight semesters.

## 2 Admission

2.1 An applicant for admission to the program for the Graduate Diploma in Science and Technology Commercialisation shall have qualified for the degree of the University or another institution accepted by the University for the purpose as equivalent, and shall have had at least 5 years approved professional work experience.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the Graduate Diploma a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the Graduate Diploma.

## 2.3 Status, exemption and credit transfer

With the exception of the Graduate Certificate in Science and Technology Commercialisation (see 2.4 below), candidates who have previously passed courses in postgraduate awards or equivalent at the University of Adelaide or another university and who wish to count such courses towards the Graduate Diploma in Science and Technology Commercialisation may, on written application to the Faculty, be granted such status as the Faculty shall determine, to a maximum aggregate value of six (6) units. Courses completed more than five years prior to application to Faculty will not be considered.

## 2.4 Articulation with other awards

2.4.1 A candidate who has been admitted to the Graduate Certificate in Science and Technology Commercialisation and who wishes to count courses presented for the Graduate Certificate toward the Graduate Diploma must surrender the Graduate Certificate before being admitted to the Graduate Diploma in Science and Technology Commercialisation.

2.4.2 A candidate for the degree of Master, or Master (Advanced) of Science and Technology Commercialisation who satisfies the requirements for Graduate Diploma but who does not complete the requirements for the Masters degree may be admitted to the Graduate Diploma in Science and Technology Commercialisation.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Graduate Diploma: Pass with High Distinction; Pass with Distinction; Pass with Credit; and Pass. The Diploma Project shall be assessed on a Satisfactory/Unsatisfactory basis.

3.2 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.

3.3 A candidate who fails a course and wishes to repeat that course, shall, unless exempted partially therefrom by the Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

3.4 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

3.5 For the purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the Graduate Diploma, a candidate shall satisfactorily complete courses to the value of 24 units of which at least 18 units are core courses.

#### 4.1.1 Core courses

TECHCOMM 5001 Marketing Technological Innovation .....	3
TECHCOMM 5002 Managing Product Design and Development .....	3
TECHCOMM 5003 Strategic Analysis for Technology Commercialisation .....	3
TECHCOMM 5005 Financing Commercialisation .....	3
TECHCOMM 5006 Technology Management and Transfer .....	3
TECHCOMM 5007 Legal Issues of the Commercialisation Process .....	3
TECHCOMM 5008 Leading and Managing .....	3
TECHCOMM 5011 Internationalisation of Technology .....	3

#### **4.1.2. Elective courses**

Any postgraduate course taught by the Entrepreneurship, Commercialisation and Innovation Centre (ECIC) except for:

TECHCOMM 5025 Commercialisation: Process and Strategy.....	3
TECHCOMM 5027 Business & Project Creation .....	3

#### **4.2 Unacceptable combination of courses**

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

#### **4.3 Graduation**

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

### **5 Special circumstances**

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

## 1 Duration of program

Except with the permission of the Faculty, the Graduate Diploma in Sciences (Defence) shall be completed in a minimum of two semesters or a maximum of eight semesters.

## 2 Admission requirements

- 2.1 Except as provided for in 2.2 below, an applicant for admission to the program shall:
- have qualified for a degree from the University of Adelaide (or equivalent in a discipline related to the proposed field of study *and*
  - shall have had at least 18 months' employment experience in a defence-related industry.
- 2.2 The Board of Studies may, in exceptional circumstances and subject to such conditions (if any) as it may see fit to impose, accept as a candidate for the award of Graduate Diploma in Sciences (Defence), a person who does not qualify under 2.1 above, but has given evidence satisfactory to the Board of fitness to undertake work for the degree.

## 2.3 Status or exemption

A candidate may not present for credit towards the award any course which has been presented as part of the requirements for any other award of this University or other institution, or which in the opinion of the Faculty is substantially similar to such course.

## 2.4 Articulation with other awards

- 2.4.1 A candidate who has been enrolled for the Graduate Certificate in Sciences (Defence) at the University of Adelaide and who has not been awarded the Graduate Certificate shall, on written application, be permitted to transfer all equivalent courses towards the Diploma degree.
- 2.4.2 A candidate who holds the Graduate Certificate in Sciences (Defence) from the University of Adelaide shall surrender the Graduate Certificate before being awarded the Graduate Diploma.

## 3 Assessment and examinations

- 3.1 There shall be four classifications of pass in any course for the Graduate Diploma in Sciences (Defence): Pass with High Distinction, Pass with Distinction, Pass with Credit, and Pass. Courses passed with a conceded pass classification may not be counted towards the requirements for the award of Graduate Diploma in Sciences (Defence).
- 3.2 A candidate shall not be eligible to attend for examination unless any prescribed coursework

has been completed to the satisfaction of the teaching staff concerned.

- 3.3 A candidate who fails in a course and desires to take the course again shall again attend the course and satisfactorily do such written and practical work as the teaching staff concerned may prescribe, unless specifically exempted therefrom after written application to the Board of Studies for such exemption.
- 3.4 A candidate who has twice failed any course may not enrol for that course again except by special permission of the Board of Studies and then only under such conditions as may be prescribed.
- 3.5 For the purpose of this Rule, a candidate who is refused permission to sit for the assessment for a given course, or who without a reason accepted by the Convenor of the Board of Studies (or nominee) fails to attend all or part of the assessment, shall be deemed to have failed that course.

## 4 Qualification requirements

- 4.1 To qualify for the award of Graduate Diploma in Sciences (Defence), a candidate shall satisfactorily complete courses from the following list to a total value of at least 24 units. These must include the two core courses from Group A to the value of 6 units.
- 4.2 Candidates may present courses offered by other universities from a register of approved courses maintained by the Board of Studies, but the total value of these external courses must not exceed 9 units (including the core courses in Group A). Candidates must have their proposed program of studies approved by the Convenor of the Board of Studies or nominee at enrolment.

### Group A: Core courses

Both of these courses are offered by the University of South Australia:

Research Methods in a Multidisciplinary Environment.....	3
Systems Engineering for Complex Problem Solving .....	3

### Group B: Defence technology stream

DEFSCI 7005 Principles of Control Systems.....	3
DEFSCI 7006 Antennas and Propagation.....	3
DEFSCI 7007 Principles of RF Engineering.....	3
DEFSCI 7029 Kalman Filtering and Tracking .....	3
DEFSCI 7035 Detection, Estimation and Classification.....	3
DEFSCI 7203 Photonics IV-D .....	3

DEFSCI 7204 Photonics III-D .....	3
DEFSCI 7206 Physical Optics III-D .....	3
DEFSCI 7207 Sonar Sensors and Systems.....	3

Note: special conditions apply to choosing courses with a Photonics theme. There is a preferred sequence within these courses, and candidates should seek guidance on their enrolment pattern. Electromagnetics III contains material which is assumed knowledge in the remaining courses, and should be taken by candidates without this specialist undergraduate Physics background. Further Photonics options may become available.

**Group C: Information and communication technology stream**

DEFSCI 7000 Cognitive Science: Minds, Brains and Computers .....	3
DEFSCI 7001 Decision Making in Real Environments.....	3
DEFSCI 7002 Distributed Systems .....	3
DEFSCI 7003 Artificial Intelligence.....	3
DEFSCI 7009 Modelling Telecommunication Traffic .....	3
DEFSCI 7019 Statistics in Engineering .....	3
DEFSCI 7022 Multimedia Communications.....	3
DEFSCI 7023 Photonics for Communications .....	3
DEFSCI 7028 Information Theory.....	3
DEFSCI 7035 Detection, Estimation and Classification.....	3
DEFSCI 7042 Computer Networks and Applications .....	3
DEFSCI 7043 Communication Networks Design...	3
DEFSCI 7044 Adaptive Business Intelligence.....	3
DEFSCI 7060 Computer Vision.....	3
DEFSCI 7061 Evolutionary Computation.....	3
DEFSCI 7063 Transform Methods & Signal Processing .....	3
DEFSCI 7210 Human Factors and Ergonomics .....	3

The availability of all elective courses is conditional on the availability of staff and facilities and sufficient enrolments.

Other relevant courses may be presented towards the requirements of the Graduate Diploma in Sciences (Defence) with the written approval of the Convenor of the Board of Studies.

**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 Board of Studies, 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 Board of Studies special circumstances exist, the Council, on the recommendation of the Board in each case, may vary any of the provisions of the Academic Program Rules for any particular award.



# Graduate Diploma in Sciences (Defence Signal Information Processing)

## 1 Duration of program

Except with the permission of the Faculty, the Graduate Diploma in Sciences (Defence Signal Information Processing) shall be completed in a minimum of two semesters or a maximum of eight semesters.

## 2 Admission

2.1 Except as provided for in 2.2 an applicant for admission to the program of study for the Graduate Diploma shall have qualified for an Honours award in Mathematics, Physics or in Electrical and Electronic Engineering; or a Bachelor award that includes a major in either Mathematics or Physics, or for an equivalent degree accepted for the purpose by the University, plus some experience in the Defence industry.

2.2 The Board of Studies may, in exceptional circumstances and subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the degree a person who does not qualify under 2.1 but who has given evidence satisfactory to the Board of fitness to undertake work for the degree.

### 2.3 Articulation with other awards

2.3.1 A candidate who has been enrolled for the Graduate Certificate in Signal Information Processing at the University of Adelaide and who has not been awarded the Graduate Certificate shall, on written application, be permitted to transfer all equivalent courses towards the Graduate Diploma.

2.3.2 A candidate who holds the Graduate Certificate in Signal Information Processing from the University of Adelaide shall surrender the Graduate Certificate before being awarded the Graduate Diploma.

### 2.4 Credit transfer

2.4.1 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.

2.4.2 Candidates may present courses offered by other universities from a register of approved courses maintained by the Board of Studies, but the total value of these external courses must not exceed 9 units (including the core courses).

## 3 Assessment and examination

### 3.1 Academic progress

If in the opinion of the Board of Studies a candidate for the degree is not making satisfactory progress, the Faculty may terminate the candidature.

## 4 Qualification requirements

4.1 To qualify for the degree a candidate shall satisfactorily complete at least 24 units as defined in 4.2.

### 4.2 Academic program

4.2.1 The program of study and project work to the value of at least 24 units shall consist of:

#### i Compulsory courses\*

Systems Engineering for Complex Problem Solving .....	3
Research Methods in a Multidisciplinary Environment .....	3

\* Offered by the University of South Australia.

#### ii Courses to the value of at least 12 units selected from:

DEFSCI 7011 Adaptive Signal Processing .....	3
DEFSCI 7012 Multisensor Data Fusion .....	3
DEFSCI 7028 Information Theory .....	3
DEFSCI 7029 Kalman Filtering and Tracking ...	3
DEFSCI 7035 Detection, Estimation and Classification .....	3
DEFSCI 7036 Introduction to Discrete Linear Systems .....	3
DEFSCI 7041 Image Sensors & Processing ...	3

#### iii Courses to the value of at least 6 units selected from:

*either*

a courses listed in 4.2.1 (ii)

*or*

b from the following courses

DEFSCI 7015 Mathematical Coding & Cryptology .....	3
DEFSCI 7024 Specialised Studies A .....	3
DEFSCI 7025 Specialised Studies B .....	3
DEFSCI 7026 Specialised Studies C .....	3
DEFSCI 7030 Error Control Coding .....	3
DEFSCI 7031 Mobile Communications .....	3

DEFSCI 7037 Signal Synthesis and Analysis* .....	3
DEFSCI 7038 Specialised Studies D# .....	3
DEFSCI 7039 Satellite Communications.....	3
DEFSCI 7060 Computer Vision .....	3
DEFSCI 7063 Transform Methods and Signal Processing* .....	3

\* DEFSCI 7037 and 7063 cannot both be presented.

# Specialised Studies may consist of directed readings or approved short courses as approved by the Faculty. The content and assessment of these courses will be determined in each case by the academic coordinator of the course in consultation with the student's supervisor and the student.

- c other relevant courses as approved by the Board of Studies from other postgraduate programs of the University.

- 4.2.2 Students who are required to undertake preliminary work will normally enrol in one of the following courses:

SIP 7027 A/B Qualifying Studies in Mathematics Part 1 & 2 .....	12
---	----

SIP 7028 Qualifying Studies in Mathematics .....	12
--	----

On satisfactory completion of this work the student will proceed to study as outlined in 4.2.1 above.

- 4.2.3 Candidates who are granted exemption from one or more of the courses listed in 4.2.1 (ii) on the basis of previous studies may select in their place other relevant courses offered by the University of Adelaide or other tertiary institutions in South Australia as may be approved by the Board of Studies.
- 4.2.4 The availability of all courses is conditional on there being adequate staffing and resources.

### 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 Board of Studies special circumstances exist, the Board in each case may vary any of the provisions of the Academic Program Rules for any particular award.





# Graduate Diploma in Water Resources Management

## 1 Duration of program

Except with the permission of the Faculty, the Graduate Diploma in Water Resources Management shall be completed in a minimum of two semesters or a maximum of eight semesters.

## 2 Admission

2.1 Except as provided for in 2.2 below, an applicant for admission to the program shall have qualified for:

- a a Bachelor degree either form, or accepted by the University of Adelaide or equivalent in a discipline related to the proposed field of study *or*
- b a Bachelor degree either from or accepted by the University of Adelaide as equivalent, in a non-related discipline and have relevant professional work experience to an approved level as assessed at the discretion of the Faculty.

2.2 The Faculty may, in exceptional circumstances and subject to such conditions (if any) as it may see fit to impose, accept as a candidate for the degree of Graduate Diploma in Water Resources Management, a person who does not qualify in 2.1 above, but has given evidence satisfactory to the Faculty of fitness to undertake work for the degree.

### 2.3 Articulation with other awards

2.3.1 A candidate who has been enrolled for the Graduate Certificate in Water Resources Management at the University of Adelaide and who has not been awarded the Graduate Certificate shall, on written application, be given consideration by the Faculty to transfer all equivalent courses towards the Graduate Diploma.

2.3.2 A candidate who holds the Graduate Certificate in Water Resources Management from the University of Adelaide shall surrender the Graduate Certificate before being awarded the Graduate Diploma.

### 2.4 Status or exemption

Candidates who have previously passed courses in other postgraduate awards at the University of Adelaide or another university and who wish to count such courses towards the degree may, on written application to the Faculty, be granted such status as the Faculty shall determine, to a maximum aggregate value of six (6) units. No such status will be granted for courses in 4.3 (a).

However, candidates may, on written application to the Faculty, be granted permission to substitute courses listed in 4.3 (a) with elective courses to a maximum aggregate value of six (6) units.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Graduate Diploma in Water Resources Management: Pass with High Distinction, Pass with Distinction, Pass with Credit, and Pass. Courses passed with a Conceded Pass classification may not be counted towards the requirements for the degree of Graduate Diploma in Water Resources Management.

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

3.3 A candidate who fails in a course and desires to take the course again shall again attend the course and satisfactorily do such written and practical work as the teaching staff concerned may prescribe, unless specifically exempted therefrom after written application to the Faculty for such exemption.

3.4 A candidate who has twice failed any course may not enrol for that course again except by special permission of the Faculty and then only under such conditions as may be prescribed.

3.5 For the purpose of this Rule, a candidate who is refused permission to sit for the assessment for a given course, or who without a reason accepted by the Executive Dean of the Faculty (or nominee) fails to attend all or part of the assessment, shall be deemed to have failed that course.

## 4 Qualification requirements

4.1 To qualify for the degree of Graduate Diploma in Water Resources Management, a candidate shall satisfactorily complete studies to a total value of at least 24 units comprising 12 units of core courses and 12 units of electives as at 4.3.

4.2 At least 12 units of study must be undertaken from courses offered by the University of Adelaide.

Candidates must have their program of studies approved by the Postgraduate Coordinator or nominee at enrolment.

## 4.3 Academic program

### Core courses

A candidate shall complete satisfactorily each of the following:

WRM 7000 Global Water Systems I (Natural Water Cycle).....	3
WRM 7002 Global Water Systems II (Engineered Water Cycle).....	3
WRM 7003 Water Resources and Society.....	3
WRM 7004 Water Resources Planning & Management .....	3

### Electives

A candidate shall complete satisfactorily four of the following courses (12 units) with at least three courses (9 units) taken from one of the streams:

#### Management of Water Infrastructure

##### University of Adelaide

WRM 7011 Environmental Modelling, Management and Design.....	3
WRM 7012 Water Resources Optimisation and Modelling.....	3
WRM 7013 Water Distribution Systems & Design.....	3
WRM 7014 Coastal Engineering and Design.....	3
WRM 7021 GIS for Environmental Management.....	3
WRM 7022 Analysis of Rivers & Sediment Transport.....	3
WRM 7023 Water Resources Sustainability & Design.....	3

##### University of South Australia

BUSS 5256 Strategic Asset Management.....	3
BUIL 5017 Facilities and Asset Performance.....	3
BUIL 5018 Facilities Program Management.....	3
BUIL 5019 Asset management Service Delivery....	3
BUIL 5020 Sustainability in Assets and Facilities ...	3
BUIL 5022 Engineering Infrastructure Management .....	3
GEOE 5001 Introduction Geographic Information Systems .....	3

##### Deakin University

SEN724 Water Resources Systems Analysis.....	3
SEN743 Water Resources Engineering.....	3
SEN744 Environmental Systems.....	3
SEV710 Risk and Environmental Sustainability.....	3
SEN714 Coastal Engineering Management.....	3

##### Central Queensland University

ENMM20010 Introduction to Maintenance Engineering.....	3
ENMM 20011 Establishing the Maintenance Strategy.....	3

ENMM20012 Maintenance Organisations.....	3
ENMM20013 Maintenance Systems and Documentation .....	3
ENMM 20015 Auditing Maintenance Systems.....	3

### Ecosystem and Catchment Management

#### University of Adelaide

WRM 7021 GIS for Environmental Management...3	
WRM 7024 Freshwater Ecology.....	3
WRM 7025 Ecosystems Modelling for Environmental Management .....	3
WRM 7026 Integrated Catchment Management .	3

#### Deakin University

SEV710 Risk and Environmental Sustainability	
SQE718 Integrated Catchment Management: Concepts, Principles and Planning	
SQE719 Integrated Catchment Management: Practical Tools for Assessment and Implementation	
SQE720 Aquatic Ecosystems Management and Rehabilitation	

#### Central Queensland University

EVST20003 Environmental Risk Management	
EVST20012 Water Management 1	

### Water Quality and Treatment

#### University of Adelaide

WRM 7010 Wastewater Engineering & Design ....	3
WRM 7011 Environmental Modelling, Management and Design.....	3
WRM 7013 Water Distribution Systems and Design.....	3

#### University of South Australia

CIVE 5048 Advanced Water Quality and Wastewater Management	
CIVE 5065 Design of Flood and Drainage Systems	
CIVE 5066 Water Quality Modelling	
CIVE 5067 Water Quality Management	
CHEM 5007 Water Quality Fundamentals & Processes N	

#### Deakin University

SEN711 Environmental Systems Design	
SEN740 Water Treatment Processes	
SEN741 Wastewater Treatment Processes	
SEN745 Water Reclamation and Reuse	

The following streams are not offered at the University of Adelaide:

Groundwater Hydrology/Hydrogeology	
Irrigation	
Water Planning	

### Unstreamed Electives

WRM 7015 Epidemiology of Infectious Diseases .....	3
WRM 7017 Biostatistics .....	3
WRM 7018 Epidemiological Research Methods ..	3
WRM 7020 Industrial Toxicology.....	3

### Other courses

With permission from the Faculty, the following course may be presented in lieu of an elective course:

WRM 7007 Research Methodology.....	3
WRM 7009 Specialised Studies I.....	3

Note: this course is a prerequisite for Projects available in the Master of Water Resources Management.

Other relevant courses may be presented towards the requirements of the degree with the approval of the Faculty.

## 4.4 Unacceptable combination of courses

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

## 4.5 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 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.



# Master of Applied Innovation and Entrepreneurship

## 1 Duration of program

Except with the permission of the Faculty, the Master of Applied Innovation and Entrepreneurship shall be completed in a minimum of four semesters or a maximum of eight semesters.

## 2 Admission

2.1 Except as provided for in 2.2 below, a candidate for admission to the program of study for the Master of Applied Innovation and Entrepreneurship shall have qualified for a degree of the University or another institution accepted by the University for the purpose as equivalent, shall have had at least 5 years approved professional work experience.

2.2 The Faculty may, in special cases and subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the degree a person who does not qualify for admission to the program under 2.1 above but has given evidence satisfactory to the Faculty of fitness to undertake work for the degree.

### 2.3 Status, exemption and credit transfer

With the exception of the Graduate Diploma in Innovation and Entrepreneurship (see 2.4 below), candidates who have previously passed courses in postgraduate awards or equivalent at the University of Adelaide or another university and who wish to count such courses towards the Master of Applied Innovation and Entrepreneurship may, on written application to the Faculty, be granted such status as the Faculty shall determine, to a maximum aggregate value of twelve (12) units. Courses completed more than ten years prior to application to Faculty will not be considered.

### 2.4 Articulation with other awards

A candidate who has been admitted to the Graduate Certificate or the Graduate Diploma in Innovation and Entrepreneurship, or the Graduate Certificate in Social Entrepreneurship, and who subsequently satisfies the requirements for the Master of Applied Innovation and Entrepreneurship must surrender the Graduate Certificate or the Graduate Diploma before being admitted to the Masters degree.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in each course for the Graduate Diploma: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

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

3.3 A candidate who fails to pass in a course and desires to take the course again shall again undertake study and satisfactorily do such written and practical work as the teaching staff concerned may prescribe, unless specifically exempted therefrom after written application to the Faculty for such exemption.

3.4 A candidate who has twice failed the examination in any course or division of a course may not enrol for the course again except by special permission of the Faculty and then only under such conditions as may be prescribed.

3.5 For the purpose of this Rule, a candidate who is refused permission to sit for examination, or who fails to attend all or part of a final examination (or supplementary examination if granted) after being 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

4.1 To qualify for the Master of Applied Innovation and Entrepreneurship, a candidate shall satisfactorily complete courses to the total value of 36 units, consisting of:

- a 27 units of coursework of which 18 units are core courses and 9 units are electives selected from the list below *and*
- b a 9-unit project as set out under 4.1.2 below.

### 4.1.1 Core courses

TECHCOMM 5001 Marketing Technology and Innovation .....	3
TECHCOMM 5016 Entrepreneurship and Innovation .....	3
TECHCOMM 5015 Project and Innovation Finance and Accounting .....	3
TECHCOMM 5018 Opportunity Assessment .....	3
TECHCOMM 7022 Creativity and Innovation.....	3
TECHCOMM 7028 Managing Strategy and Growth.....	3

### 4.1.2 Masters project

TECHCOMM 5028 A/B Project in Entrepreneurship .....	9
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#### 4.1.3 Elective courses

TECHCOMM 5002 Managing Product Design and Development .....	3
TECHCOMM 5003 Strategic Analysis for Technology Commercialisation .....	3
TECHCOMM 5004 Managing Risk.....	3
TECHCOMM 5005 Financing Commercialisation .	3
TECHCOMM 5006 Technology Management and Transfer .....	3
TECHCOMM 5007 Legal Issues of the Commercialisation Process .....	3
TECHCOMM 5008 Leading and Managing.....	3
TECHCOMM 5011 Internationalisation of Technology.....	3
TECHCOMM 5021 Applied Project Management I .....	3
TECHCOMM 7012 Business and Contract Legal Studies .....	3
TECHCOMM 7014 Social Venture Funding.....	3
TECHCOMM 7019 Social Entrepreneurship .....	3

#### 4.2 Unacceptable combination of courses

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

#### 4.3 Graduation

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

### 5 Special circumstances

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



# Master of Applied Innovation and Entrepreneurship (Advanced)

## 1 Duration of program

Except with the permission of the Faculty, the Master of Applied Innovation and Entrepreneurship (Advanced) shall be completed in a minimum of four semesters or a maximum of ten semesters.

## 2 Admission

2.1 Except as provided for in 2.2 below, a candidate for admission to the program of study for the Master of Applied Innovation and Entrepreneurship (Advanced) shall have qualified for a degree of the University or another institution accepted by the University or another institution accepted by the University for the purpose as equivalent, shall have had at least 5 years approved professional work experience.

2.2 The Faculty may, in special cases and subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the degree a person who does not qualify for admission to the program under 2.1 above but has given evidence satisfactory to the Faculty of fitness to undertake work for the degree.

### 2.3 Status, exemption and credit transfer

With the exception of the Graduate Diploma and Master of Applied Innovation and Entrepreneurship (see 2.4 below), candidates who have previously passed courses in postgraduate awards or equivalent at the University of Adelaide or another university and who wish to count such courses towards the Master of Applied Innovation and Entrepreneurship (Advanced) may, on written application to the Faculty, be granted such status as the Faculty shall determine, to a maximum aggregate value of twelve (12) units. Courses completed more than ten years prior to application to Faculty will not be considered.

### 2.4 Articulation with other awards

A candidate who has been admitted to the Graduate Certificate or the Graduate Diploma, or the Master of Applied Innovation and Entrepreneurship, or the Graduate Certificate in Social Entrepreneurship, and who subsequently satisfies the requirements for the Master of Applied Innovation and Entrepreneurship (Advanced) must surrender the Graduate Certificate or the Graduate Diploma, or the Masters before being admitted to the Masters (Advanced) degree.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in each course for the Graduate Diploma: Pass with High

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

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

3.3 A candidate who fails to pass in a course and desires to take the course again shall again undertake study and satisfactorily do such written and practical work as the teaching staff concerned may prescribe, unless specifically exempted therefrom after written application to the Faculty for such exemption.

3.4 A candidate who has twice failed the examination in any course or division of a course may not enrol for the course again except by special permission of the Faculty and then only under such conditions as may be prescribed.

3.5 For the purpose of this Rule, a candidate who is refused permission to sit for examination, or who fails to attend all or part of a final examination (or supplementary examination if granted) after being 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

4.1 To qualify for the Master of Applied Innovation and Entrepreneurship (Advanced), a candidate shall satisfactorily complete courses to the total value of 48 units, consisting of:

- a 39 units of coursework of which 24 units are core courses and 15 units are electives selected from the list below
- b a 9-unit project as set out under 4.1.2 below.

### 4.1.1 Core courses

TECHCOMM 5001 Marketing Technology and Innovation .....	3
TECHCOMM 5004 Managing Risk.....	3
TECHCOMM 5008 Leading and Managing.....	
TECHCOMM 5016 Entrepreneurship and Innovation .....	3
TECHCOMM 5015Project and Innovation Finance and Accounting .....	3
TECHCOMM 5018 Opportunity Assessment .....	3
TECHCOMM 7022 Creativity and Innovation.....	3
TECHCOMM 7028 Managing Strategy and Growth .....	3

#### 4.1.2 Masters project

TECHCOMM 5028 A/B Project in Entrepreneurship.....	9
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#### 4.1.3 Elective courses

TECHCOMM 5002 Managing Product Design and Development .....	3
TECHCOMM 5003 Strategic Analysis for Technology Commercialisation .....	3
TECHCOMM 5005 Financing Commercialisation .	3
TECHCOMM 5006 Technology Management and Transfer .....	3
TECHCOMM 5007 Legal Issues of the Commercialisation Process .....	3
TECHCOMM 5011 Internationalisation of Technology .....	3
TECHCOMM 5021 Applied Project Management I .....	3
TECHCOMM 7012 Business and Contract Legal Studies .....	3
TECHCOMM 7014 Social Venture Funding.....	3
TECHCOMM 7019 Social Entrepreneurship .....	3

#### 4.2 Unacceptable combination of courses

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

#### 4.3 Graduation

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

### 5 Special circumstances

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

## **Graduate Attributes**

### Postgraduate programs in Applied Innovation and Entrepreneurship

- Internationally recognised and advanced levels of knowledge and understanding of the process and techniques involved in assessing and transforming ideas into innovation opportunities and new ventures
- An ability to locate, analyse, evaluate, and synthesise information from a wide variety of sources in a planned and timely manner to facilitate the assessment and transformation of ideas into innovation opportunities and new ventures
- An ability to apply effective, creative and innovative solutions, both independently and cooperatively, to current and future innovation and entrepreneurship issues, problems and concerns encountered by communities and throughout the new venture process
- Skills of a high order in interpersonal understanding, teamwork and communication in facilitating and implementing innovation and new venture processes
- A commitment to continuous learning and the capacity to maintain intellectual curiosity throughout life that emerges innovation and entrepreneurship opportunities
- A commitment to the highest standards of professional endeavour and the ability to take a leadership role in the community in pursuing the creation, implementation and growth of innovation and entrepreneurship opportunities
- An awareness of ethical, social and cultural issues encountered in engaging with innovation and entrepreneurship within the global context and the importance of exercising professional skills and responsibilities in dealing with social and cultural issues.



## 1 Duration of program

Except with the permission of the Faculty, the Master of Applied Project Management shall be completed in a minimum of four semesters or a maximum of eight semesters.

## 2 Admission

2.1 An applicant for admission to the academic program for the Master Of Applied Project Management shall have qualified for a degree of the University or a degree of another institution accepted by the Faculty for the purpose as equivalent to a degree of the University, provided that:

- (a) in the case of an undergraduate degree of 4 years duration, or equivalent, no industrial experience will be required
- (b) in the case of an undergraduate degree of 3 years duration, or equivalent, an additional 3 years of relevant industrial experience will be required.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the Master Of Applied Project Management, a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for Master Of Applied Project Management.

### 2.3 Status, exemption and credit transfer

Candidates who have previously passed courses in postgraduate awards or equivalent at the University of Adelaide or another university and who wish to count such courses towards the Master Of Applied Project Management may, on written application to the Faculty, be granted such status as the Faculty shall determine, to a maximum aggregate value of twelve (12) units.

### 2.4 Articulation with other awards

2.4.1 A candidate for the Master Of Applied Project Management who does not complete the requirements for the Master Of Applied Project Management degree but satisfies the requirements for the Graduate Certificate or the Master of Project Management may be admitted to that degree as appropriate.

2.4.2 A candidate who has been admitted to the Graduate Certificate or the Master of Project Management, and who subsequently satisfies the requirements for the Master of Applied Project Management must surrender the Graduate Certificate or the Master of Project Management

before being admitted to the Master of Applied Project Management.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Graduate Certificate: Pass with High Distinction; Pass with Distinction; Pass with Credit; and Pass.

3.2 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.

3.3 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially there from by the Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

3.4 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

3.5 For the purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the assessment.

## 4 Qualification requirements

4.1 To qualify for the Master of Applied Project Management, a candidate shall satisfactorily complete 36 units, comprising core courses to the value of at least 30 units and up to 6 units of elective courses:

### 4.1.1 Core courses

TECHCOMM 5004 Managing Risk.....	3
TECHCOMM 5014 Project and Management Techniques.....	3
TECHCOMM 5015 Project Finance and Accounting* .....	3
TECHCOMM 5021 Applied Project Management 1 .....	3
TECHCOMM 5026 Applied Project Management 2 .....	3
<i>or</i>	
TECHCOMM 5013 Systems Engineering .....	3
TECHCOMM 7012 Business and Contract Management Legal Studies .....	3
Plus at least 12 units of core courses from one of the following plans :	

## Defence

TECHCOMM 5010 Technology Project Management 1 .....	3
TECHCOMM 5013 Systems Engineering I .....	3
TECHCOMM 7024 Complex Project Management 1 .....	3
TECHCOMM 7030 Logistics and Supply Chain Management .....	3

*or*

## Management of Climate Change

TECHCOMM 7023 Carbon Impact and Strategy ..	3
TECHCOMM 7024 Complex Project Management I .....	3
TECHCOMM 7025 Introduction to Climate Change .....	3
TECHCOMM 7033 Ongoing Carbon Management .....	3

*or*

## Mining

GEOLOGY 7002 Minerals Exploration .....	3
TECHCOMM 7031 Introduction to Minerals Processing .....	3
TECHCOMM 7032 Mine Financing & Valuation ....	3
TECHCOMM 7034 Mine Management & Safety ..	3
TECHCOMM 7035 Socio-Environmental Aspects of Mining .....	3

\*Students in the Mining stream are required to complete Mine Financing and Valuation in lieu of Project and Innovation Finance and Accounting.

### 4.1.2 Elective courses

Any postgraduate courses, up to the value of 6 units, taught by Entrepreneurship, Innovation and Commercialisation Centre (ECIC).

### 4.2 Unacceptable combinations of courses

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

### 4.3 Graduation

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

### 5 Special circumstances

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

# Master of Applied Project Management (Advanced)

## 1 Duration of program

Except with the permission of the Faculty, the Master of Applied Project Management (Advanced) shall be completed in a minimum of four semesters or a maximum of ten semesters.

## 2 Admission

2.1 An applicant for admission to the academic program for the Master of Applied Project Management (Advanced) shall have qualified for a degree of the University or a degree of another institution accepted by the Faculty for the purpose as equivalent to a degree of the University, provided that:

- (a) in the case of an undergraduate degree of 4 years duration, or equivalent, no industrial experience will be required
- (b) in the case of an undergraduate degree of 3 years duration, or equivalent, an additional 3 years of relevant industrial experience will be required.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the Master of Applied Project Management (Advanced), a person who does not satisfy the requirements of Rule 1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for Master of Applied Project Management (Advanced).

### 2.3 Status, exemption and credit transfer

With the exception of the Graduate Certificate, the Master of Project Management, and the Master of Applied Project Management, candidates who have previously passed courses in postgraduate awards or equivalent at the University of Adelaide or another university and who wish to count such courses towards the Master of Applied Project Management (Advanced) may, on written application to the Faculty, be granted such status as the Faculty shall determine, to a maximum aggregate value of twelve (12) units. Courses completed more than ten years prior to application to Faculty will not be considered.

### 2.4 Articulation with other awards

2.4.1 A candidate for the Master of Applied Project Management (Advanced) who does not complete the requirements for the Master of Applied Project Management (Advanced) degree but satisfies the requirements for the Graduate Certificate or the Master of Project Management or the Master of Applied Project Management may be admitted to that degree as appropriate.

2.4.2 A candidate who has been admitted to the Graduate Certificate or the Master of Project Management, or the Master of Applied Project Management and who subsequently satisfies the requirements for the Master of Applied Project Management (Advanced) must surrender the Graduate Certificate or the Master of Project Management or the Master of Applied Project Management before being admitted to the Master of Applied Project Management (Advanced).

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Graduate Certificate: Pass with High Distinction; Pass with Distinction; Pass with Credit; and Pass.

3.2 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.

3.3 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially there from by the Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

3.4 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

3.5 For the purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the assessment.

## 4 Qualification requirements

4.1 To qualify for the Master of Applied Project Management (Advanced), a candidate shall satisfactorily complete 48 units, comprising core courses to the value of at least 30 units, up to 6 units of elective courses, and a project:

### 4.1.1 Core courses

TECHCOMM 5004 Managing Risk.....	3
TECHCOMM 5014 Project and Management Techniques.....	3
TECHCOMM 5015 Project Finance and Accounting*.....	3
TECHCOMM 5021 Applied Project Management 1 .....	3
TECHCOMM 5026 Applied Project Management 2 .....	3
or	
TECHCOMM 5013 Systems Engineering .....	3

TECHCOMM 7012 Business and Contract Management Legal Studies .....3  
 Plus at least 12 units of core courses from one of the following plans :

**Defence**

TECHCOMM 5010 Technology Project Management 1 .....3  
 TECHCOMM 5013 Systems Engineering I .....3  
 TECHCOMM 7024 Complex Project Management 1 .....3  
 TECHCOMM 7030 Logistics and Supply Chain Management .....3

*or*

**Management of Climate Change**

TECHCOMM 7023 Carbon Impact and Strategy ..3  
 TECHCOMM 7024 Complex Project Management 1 .....3  
 TECHCOMM 7025 Introduction to Climate Change .....3  
 TECHCOMM 7033 Ongoing Carbon Management .....3

*or*

**Mining**

GEOLOGY 7002 Minerals Exploration.....3  
 TECHCOMM 7031 Introduction to Minerals Processing .....3  
 TECHCOMM 7032 Mine Financing & Valuation ....3  
 TECHCOMM 7034 Mine Management & Safety ..3  
 TECHCOMM 7035 Socio-Environmental Aspects of Mining.....3

*Plus*

TECHCOMM 7009 Applied Project Management Project ..... 12

\*Students in the Mining stream are required to complete Mine Financing and Valuation in lieu of Project and Innovation Finance and Accounting.

**4.1.2 Elective courses**

Any postgraduate courses, up to the value of 6 units, taught by Entrepreneurship, Innovation and Commercialisation Centre (ECIC).

**4.1.3 Supervised project work**

TECHCOMM 7009 Applied Project Management Project ..... 12

**4.2 Unacceptable combinations of courses**

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

**4.3 Graduation**

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

**5 Special circumstances**

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

## Graduate Attributes

Master of Applied Project Management

Master of Applied Project Management (Advanced)

- Knowledge and understanding of the content and techniques of project management at advanced levels, which are internationally recognised - this is achieved through use of the PMBOK model, which originates from the Project Management Institute of the USA.
- The ability to locate, analyse, evaluate and synthesise information from a wide variety of sources in a planned and timely manner - the course notes are structured to achieve this.
- The ability to apply effective, creative and innovative solutions, both independently and cooperatively, to current and future problems - again course notes are structured to achieve this and the Business and Project Creation Courses and 12 Unit Project in Project Management aim at innovation.
- Skills of a high order in interpersonal understanding, teamwork and communication - professionally recognised skills are an objective of the program; groupwork is an integral component.
- A proficiency in the appropriate use of contemporary technologies – course remains contemporary through regular review.
- A commitment to continuous learning and the capacity to maintain intellectual curiosity throughout life - self-learning is a requirement of many courses.
- A commitment to the highest standards of professional endeavour and the ability to take a leadership role in the community - leadership is a separate course and leadership is emphasised in many other courses .
- An awareness of ethical, social and cultural issues and their importance in the exercise of professional skills and responsibilities - ethics and social responsibility are addressed in Applied Project Management 1, Business and Contract Legal Studies, Applied Project Management 2, Mine Management and Safety and Socio-Environmental Aspects of Mining.
- Ability to do research appropriate for an applied research project.

These graduate attributes will be maintained for the 48 unit MAPM (Adv) . However the following will be added for the specialisations:

- Defence: Recognition of the role of peace and stability in the development of the communities and nations.
- Management of Climate Change: Support maintenance of stability in the business response to forces of change
- Mining: Recognition of possible conflicts between mining interests and those of the community and traditional owners of land, and skills in resolving these conflicts with equity, empathy and compassion.



## 1 General

This document must be read in conjunction with:

- a the General Academic Program Rules for Master by Research Programs (see under Adelaide Graduate Centre, p.18) *and*
- b the Research Student Handbook, published by the Adelaide Graduate Centre.

These documents explain procedures to be followed and contain guidelines on supervision and research for the degree of Doctor of Philosophy and the various Masters Degrees by Research, offered by the University.

All students must comply with both the General Academic Rules and the rules following below, and procedures outlined in the Research Student Handbook.

In addition to the General Academic Program Rules for Masters by Research degrees, in this publication, the following discipline specific rules apply.

## 2 Admission

- 2.1 In addition to General Academic Program Rule 4.1 on Admission, applicants for admission to candidature for the Master of Applied Science must hold:

- a an Honours degree of Bachelor of Science, Applied Science or Agricultural Science *or*
- b a qualification accepted by the Research Education and Development Committee as being equivalent to the Honours degree of Bachelor of Science, Applied Science or Agricultural Science *or*
- c a degree of Bachelor of Science, Applied Science or Agricultural Science or a qualification accepted by the Committee as being equivalent. Candidates admitted under this Rule may not be awarded the degree before the expiration of two years from the date of qualification for candidature and will be required to undertake qualifying work as specified in General Program Rule 5.2.

### 2.2 Mode of study

Further to General Academic Program Rule 7.1, subject to such conditions as it may determine in each case, the Research Education and Development Committee may permit project work to be undertaken outside the University provided that it can be satisfied:

- a that this will result in mutual academic benefit to the candidate and the candidate's supervising school

- b that there will be adequate contact and interaction between the candidate and the candidate's supervising school *and*
- c that the supervisor's access to any experimental work, the candidate's availability for seminars and other discussions, and the publication of results will not thereby be prejudiced.

### 2.3 Program of study

In addition to General Academic Program Rule 19.1, a program of study for the Master of Applied Science may contain a combination of coursework and project work. Currently two options are offered.

To qualify for the degree, a candidate shall satisfactorily complete a program of study consisting of one of the following approved options:

- a an all-research work program comprising Supervised Project Work to be completed and the thesis submitted not less than one year full-time equivalent or more than two years full-time equivalent from the date of commencement of candidature *or*
- b a three-quarters research program comprising coursework to the value of 12 units and Supervised Project Work. All coursework is to be completed and the thesis submitted not less than one year full-time equivalent or more than two years full-time equivalent from the date of commencement of candidature.

### 2.4 Classification of courses

Courses forming part of any coursework component for the degree shall be classified as follows:

#### Group A: Postgraduate courses

These are courses offered at a postgraduate level either in the Faculty of Engineering, Computer and Mathematical Sciences, in another faculty or school, or at another Institution. These include postgraduate courses in the Faculty of Engineering, Computer and Mathematical Sciences, Honours and approved postgraduate diploma courses in the Faculty of Sciences and postgraduate courses at Flinders University or the University of South Australia.

#### Group B: Advanced level courses

These are courses in Engineering which have been designated as 'Advanced Level' by the School concerned. They are courses which reach an advanced level of expertise in the course material. Subject to the approval of the Faculty, courses from outside Engineering may also be included in this category.

### Group C: Ordinary level courses

These are courses at either Level III or Level IV in the Faculty of Engineering, Computer and Mathematical Sciences which are not designated 'Advanced Level', or courses at Level III in the Faculty of Sciences, or approved final year undergraduate courses from other Faculties or institutions.

## 2.5 Coursework requirements

- 2.5.1 A candidate seeking to enrol in a program of study with a coursework component shall, after consulting the Head of the school (or nominee) in which the majority of the candidate's work falls, submit the proposed program to the Faculty for approval.
- 2.5.2 The program for a three-quarters research and one-quarter coursework degree may not contain more than a total of 6 units of courses from Groups B and C and may not contain more than 6 units of courses from outside the discipline of Engineering.
- For the purposes of this policy, the discipline of Engineering is deemed to include all Centres and joint ventures of which the discipline, or its constituent schools, is a formal partner.
- 2.5.3 There shall be four classifications of pass in each course for the Master of Applied Science: Pass with High Distinction, Pass with Distinction, Pass with Credit, and Pass. If a course has a Conceded Pass classification for the purpose of another award, any such course passed with this classification shall not count towards the requirements for the degree of Master of Applied Science.
- 2.5.4 A course shall be eligible to be counted for credit towards the coursework requirements of the degree if:
- a in Groups A and B the grade obtained is at Pass standard (50%) or higher
  - b in Group C the grade obtained is 60% or higher.
- 2.5.5 To satisfy the coursework requirements of the degree, a candidate must obtain a weighted average, taken over the best results in eligible courses which together amount to the required number of units, of at least 55%.
- 2.5.6 Courses which have been presented as part of the requirements for any other award of this University or other institution or courses which in the opinion of the Faculty are substantially similar to such courses, will not be permitted to count for credit towards the coursework requirements of this degree.

## 2.6 Program of study

The program of study for the Master of Applied Science is the same as for the Master of Engineering Science.



## 1 Duration of program

Except with the permission of the Faculty, the Master of Computer Science shall be completed in a minimum of four semesters or a maximum of sixteen semesters.

## 2 Admission

2.1 The Faculty may accept as a candidate for the degree any person who has completed one of the following at the University of Adelaide:

Graduate Diploma in Computer Science

Bachelor degree that includes a major in Computer Science

Bachelor of Engineering (Computer Systems Engineering)

Bachelor of Engineering (Software Engineering)

Bachelor of Engineering (Telecommunications Engineering)

2.2 The Faculty may accept as a candidate for the degree any person who has completed studies at another institution where those studies are accepted by the University as equivalent to studies specified in 2.1 above.

2.3 The Faculty may, in exceptional circumstances and subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the degree a person who does not qualify under 2.1, but who has given evidence satisfactory to the Faculty of fitness to undertake work for the degree.

## 3 Assessment and examination

### 3.1 Academic progress

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

## 4 Qualification requirements

4.1 To qualify for the degree a candidate shall:

- a satisfy examiners in courses of study as prescribed in the Academic Program Rules
- b comply with conditions as prescribed in the Academic Program Rules *and*
- c present a satisfactory written report and public presentations on a supervised project on a course approved by the School of Computer Science.

## 4.2 Academic program

Note: intending students should consult the School of Computer Science early in the year in which they plan to study in order to ascertain whether particular courses will be available in that year, in which semester they will be taught and their precise content.

4.2.1 A candidate for the degree shall complete satisfactorily a total of at least 48 units.

4.2.2 A candidate for the degree shall regularly attend lectures and tutorials, do such written and practical work as may be prescribed, and pass examinations in at least 33 units of non-project courses offered by the School of Computer Science at the Honours or Masters level. Other courses may be included, subject to the approval of the Head of the School.

a The courses presented must include:

COMP SCI 7007 Specialised Programming....3

COMP SCI 7095A/B Master of Computer Science Research Project..... 15

The requirements of this clause may be waived by the Head of School on a case-by-case basis.

b Courses listed in clause 4.1.1 of the Academic Program Rules for the Graduate Diploma in Computer Science may not be presented.

c A maximum of 12 units of courses listed in clause 4.1.2 of the Academic Program Rules for the Graduate Diploma in Computer Science may be presented for the degree.

4.2.3 The Faculty may grant status of up to the value of 24 units for relevant studies undertaken within an Honours or Masters degree at the University of Adelaide, or within an equivalent degree of another tertiary institution. These candidates will still need to present a minimum of 24 units towards the Master of Computer Science that have not been presented for any other degree.

### 4.3 Unacceptable combinations of courses

Subject to 4.2.3 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.

### 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.



# Master of Computing and Innovation

## 1 Duration of program

Except with the permission of the Faculty, the Master of Computing and Innovation Science shall be completed in a minimum of four semesters or a maximum of sixteen semesters.

## 2 Admission

- 2.1 The Faculty may accept as a candidate for the degree any person who has completed a bachelor degree either from, or accepted by the University of Adelaide as equivalent
- 2.2 The Faculty may, in exceptional circumstances and subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the degree a person who does not qualify under 2.1, but who has given evidence satisfactory to the Faculty of fitness to undertake work for the degree.

## 3 Assessment and examination

### 3.1 Review of academic progress

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

## 4 Qualification requirements

- 4.1 To qualify for the degree a candidate shall:
  - a satisfy examiners in courses of study as prescribed in the Academic Program Rules
  - b comply with conditions as prescribed in the Academic Program Rules and
  - c present a satisfactory written report and public presentation on a supervised project on a topic approved by the School of Computer Science.
- 4.2 Academic program
 

Note: intending students should consult the School of Computer Science early in the year in which they plan to study in order to ascertain whether particular courses will be available in that year, in which semester they will be taught and their precise content.

  - 4.2.1 A candidate for the degree shall complete satisfactorily a total of at least 48 units.
  - 4.2.2 A candidate for the degree shall regularly attend lectures and tutorials, do such written and practical work as may be prescribed, and pass examinations in at least 42 units of non-project courses offered by the School of Computer Science and the Entrepreneurship, Commercialisation and Innovation Centre at the Honours or Masters level. Other courses may be included, subject to the approval of the Head of the School.

- a The first four courses presented towards the degree must consist of:
  - COMP SCI 7080 Computer Science Concepts .....3
  - COMP SCI 7081 Computer Systems .....3
  - COMP SCI 7082 Data Structures and Algorithms .....3
  - COMP SCI 7097 Communication and Study Skills.....3
  - No other courses from clause 4.1.1 of the Academic Program Rules for the Graduate Diploma in Computer Science may be presented.
- b At least 12 units but not more than 18 units of courses listed in clause 4.1.2 of the Academic Program Rules for the Graduate Diploma in Computer Science must be presented. The courses must include:
  - COMP SCI 7015 Software Engineering and Project.....3
- c At least 6 units selected from the following courses offered by the Entrepreneurship, Commercialisation, and Innovation Centre:
  - TECHCOMM 5016 Entrepreneurship and Innovation .....3
  - TECHCOMM 5018 Opportunity Assessment 3
  - TECHCOMM 5021 Applied Project Management 1 .....3
  - TECHCOMM 7022 Creativity & Innovation .....3
- d The courses presented must include:
  - COMP SCI 7098 Master of Computing and Innovation Project.....6

- 4.2.3 The Faculty may grant status of up to the value of 24 units for relevant studies undertaken within an Honours degree in Computer Science at the University of Adelaide, or within an equivalent degree of another tertiary institution. These candidates will still need to present a minimum of 24 units towards the Master of Computing and Innovation that have not been presented for any other degree.
- 4.2.4 No candidate will be permitted to count for the Master of Computing and Innovation any course that in the opinion of the School contains substantially the same material as any other course which the candidate has presented already for another qualification. If a non-project course excluded by this clause is required to be presented then that requirement will be waived. Advanced standing will only be awarded subject to clause 4.2.3

### **4.3 Unacceptable combinations of courses**

Subject to 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.

### **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**

### Master of Computing and Innovation

- Ability to apply knowledge of Computer Science fundamentals, including programming, computer and data structures and computer networks.
- Ability to design complex systems involving both hardware, software and networks using software engineering techniques.
- Appreciation of current technologies.
- Appreciation of professional conduct and ethical issues in the ICT industry.
- Ability to communicate effectively, not only with other computer scientists and software engineers, but with the community at large on information technology issues.
- Ability to establish, manage and work within innovative and entrepreneurial enterprises.
- Ability to demonstrate an understanding of the nature and processes of innovation, project management and commercialisation
- Ability to 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.
- Ability, by self directed study, to remain up to date with developments in their careers/professions.



# Master of Engineering in: Aerospace Engineering *or* Chemical Engineering *or* Civil & Environmental Engineering *or* Civil & Structural Engineering *or* Electrical & Electronic Engineering *or* Engineering Mathematics *or* Mechanical Engineering *or* Mechatronic Engineering

## 1 Duration of program

Except with the permission of the Faculty, the Master of Engineering shall be completed in a minimum of two semesters or a maximum of eight semesters.

## 2 Admission

- 2.1 Except as provided for in 2.2 below, an applicant for admission to the program shall have qualified for the degree of Bachelor of Engineering with Honours either from, or accepted by the University of Adelaide as equivalent, in a discipline related to the proposed field of study.
- 2.2 The Faculty may, in exceptional circumstances and subject to such conditions (if any) as it may see fit to impose, accept as a candidate for the degree of Master of Engineering, a person who does not qualify 2.1 above, but has given evidence satisfactory to the Faculty of fitness to undertake work for the degree.

### 2.3 Status or exemption

A candidate may not present for credit towards the degree any course which has been presented as part of the requirements for any other award of this University or other institution, or which in the opinion of the Faculty is substantially similar to such course.

## 3 Assessment and examinations

- 3.1 There shall be four classifications of pass in any course for the Master of Engineering: Pass with High Distinction, Pass with Distinction, Pass with Credit, and Pass. Courses passed with a Conceded Pass classification may not be counted towards the requirements for the degree of Master of Engineering.
- 3.2 A candidate shall not be eligible to attend for examination unless any prescribed coursework

has been completed to the satisfaction of the teaching staff concerned.

- 3.3 A candidate who fails in a course and desires to take the course again shall again attend the course and satisfactorily do such written and practical work as the teaching staff concerned may prescribe, unless specifically exempted therefrom after written application to the Faculty for such exemption.
- 3.4 A candidate who has twice failed any course may not enrol for that course again except by special permission of the Faculty and then only under such conditions as may be prescribed.
- 3.5 For the purpose of this Rule, a candidate who is refused permission to sit for the assessment for a given course, or who without a reason accepted by the Executive Dean of the Faculty (or nominee) fails to attend all or part of the assessment, shall be deemed to have failed that course.

## 4 Qualification requirements

- 4.1 To qualify for the degree of Master of Engineering, a candidate shall satisfactorily complete courses to a total value of at least 24 units including core courses from Group A to the value of 9 units and elective courses from Group B in one of the specified disciplines, to a value of at least 12 units. No more than 3 units can be selected from the Management electives under Group B\*.
- Candidates must have their program of studies approved by the Head of School or nominee at enrolment.

\*Candidates undertaking the disciplines of Aerospace, Mechanical or Mechatronic Engineering are not permitted to present any Management electives toward their program.

## 4.2 Academic program

### A Core courses

STATS 7053 Statistics in Engineering .....	3
TECHCOMM 5021 Applied Project Management I .....	3
<i>and either</i>	
APP MTH 7054 System Modelling & Simulation ...	3
<i>or</i>	
COMP SCI 7077 System Modelling & Simulation ..	3

### B Elective courses

#### Aerospace Engineering

APP MTH 7018 Aerodynamics .....	3
APP MTH 7052 Computational Fluid Dynamics ...	3
CHEM ENG 7047 Composites and Multiphase Polymers .....	3
MECH ENG 7021 Combustion Technology and Emissions Control.....	3
MECH ENG 7023 Fracture Mechanics .....	3
MECH ENG 7024 Robotics M .....	3
MECH ENG 7026 Advanced Topics in Fluid Mechanics .....	3
MECH ENG 7027 Engineering Acoustics.....	3
MECH ENG 7028 Advanced Automatic Control ...	3
MECH ENG 7030 Advanced Vibrations.....	3
MECH ENG 7034 Advanced Digital Control.....	3
MECH ENG 7035 High-Speed Aerodynamics.....	3
MECH ENG 7037 Aerospace Propulsion 1 .....	3
MECH ENG 7038 Aerospace Propulsion 2 .....	3
MECH ENG 7043 Stresses in Plates and Shells ...	3
MECH ENG 7045 CFD for Engineering Applications .....	3
MECH ENG 7051 Computational Acoustics .....	3
MECH ENG 7050 Sustainability & the Environment.....	3
MECH ENG 7053 Aerospace Propulsion .....	3
MECH ENG 7055 Wind Engineering .....	3
MECH ENG 7059 Finite Element Analysis of Structures .....	3
MECH ENG 7060 Mechanical Signature Analysis.....	3
MECH ENG 7061 Corrosion Principles and Prevention.....	3
MECH ENG 7062 Aircraft Design.....	3
MECH ENG 7063 Advanced Topics in Aerospace Engineering.....	3

### Chemical Engineering

Note: not all courses are offered each year. Students are advised to check with the postgraduate coursework coordinator before enrolling in this program.

#### *Energy and Combustion:*

CHEM ENG 7032 Principles of Sustainability & Decision Making .....	3
CHEM ENG 7033 Chemometrics .....	3
CHEM ENG 7034 Environmental Modelling .....	3
CHEM ENG 7036 Air Pollution.....	3
CHEM ENG 7037 Combustion and Energy Engineering .....	3
CHEM ENG 7039 Pinch Analysis.....	3
CHEM ENG 7040 Thermal & Separation Processes .....	3
CHEM ENG 7041 Advanced Rheology and Polymer Process.....	3
CHEM ENG 7042 Advanced Chemical Engineering Thermodynamics.....	3
CHEM ENG 7044 Food Engineering .....	3
CHEM ENG 7045 Advanced Fluid Mechanics .....	3
ELEC ENG 7057 Engineering Communication and Critical Thinking .....	3

#### *Environment and Sustainability:*

CHEM ENG 7032 Principles of Sustainability & Decision Making .....	3
CHEM ENG 7033 Chemometrics .....	3
CHEM ENG 7034 Environmental Modelling .....	3
CHEM ENG 7036 Air Pollution.....	3
CHEM ENG 7037 Combustion and Energy Engineering .....	3
CHEM ENG 7039 Pinch Analysis.....	3
CHEM ENG 7040 Thermal & Separation Processes .....	3
CHEM ENG 7041 Advanced Rheology and Polymer Process .....	3
CHEM ENG 7042 Advanced Chemical Engineering Thermodynamics.....	3
CHEM ENG 7044 Food Engineering .....	3
CHEM ENG 7045 Advanced Fluid Mechanics .....	3
ELEC ENG 7057 Engineering Communication and Critical Thinking .....	3

#### *Food and BioProcessing:*

CHEM ENG 7032 Principles of Sustainability & Decision Making .....	3
CHEM ENG 7033 Chemometrics .....	3
CHEM ENG 7034 Environmental Modelling .....	3
CHEM ENG 7035 Wastewater Treatment .....	3
CHEM ENG 7039 Pinch Analysis.....	3
CHEM ENG 7045 Advanced Fluid Mechanics .....	3
CHEM ENG 7040 Thermal & Separation Processes .....	3

CHEM ENG 7041 Advanced Rheology and Polymer Process .....	3
CHEM ENG 7043 Bioreaction and Bioreparation Engineering .....	3
CHEM ENG 7044 Food Engineering .....	3
ELEC ENG 7057 Engineering Communication and Critical Thinking .....	3

### Civil & Environmental Engineering

C&ENVENG 7027 Wastewater Engineering & Design .....	3
C&ENVENG 7028 Waste Management Analysis & Design .....	3
C&ENVENG 7029 Environmental Modelling, Management & Design .....	3
C&ENVENG 7034 Deep Foundation Engineering & Design .....	3
C&ENVENG 7035 Expansive Soils & Footing Design .....	3
C&ENVENG 7036 Water Resources Optimisation & Modelling .....	3
C&ENVENG 7037 Water Distribution Systems & Design .....	3
C&ENVENG 7038 Coastal Engineering & Design ..	3
C&ENVENG 7044 Introduction to Environmental Law .....	3
C&ENVENG 7047 Analysis of Rivers & Sediment Transport .....	3
C&ENVENG 7048 Water Resources Sustainability and Design .....	3

### Civil & Structural Engineering

C&ENVENG 7033 Structural Dynamics due to Wind & Earthquakes .....	3
C&ENVENG 7034 Deep Foundation Engineering & Design .....	3
C&ENVENG 7035 Expansive Soils & Footing Design .....	3
C&ENVENG 7036 Water Resources Optimisation & Modelling .....	3
C&ENVENG 7037 Water Distribution Systems & Design .....	3
C&ENVENG 7038 Coastal Engineering & Design ..	3
C&ENVENG 7042 Advanced Reinforced Concrete .....	3
C&ENVENG 7046 FRP Retrofitting of Concrete Structures .....	3
C&ENVENG 7047 Analysis of Rivers and Sediment Transport .....	3
C&ENVENG 7048 Water Resources Sustainability and Design .....	3
C&ENVENG 7059 Structural Response to Blast Loading .....	3
C&ENVENG 7061 Computer Methods of Structural Analysis and Design .....	3

### Electrical & Electronic Engineering

APP MTH 7026 Communication Network Design..3	
APP MTH 7056 Telecommunications Systems Modelling .....	3
ELEC ENG 7015 Adaptive Signal Processing.....3	
ELEC ENG 7017 Beam Forming & Array Processing .....	3
ELEC ENG 7033 Principles of RF Engineering.....3	
ELEC ENG 7044 Multimedia Communications.....3	
ELEC ENG 7045 Photonics for Communications...3	
ELEC ENG 7046 Power Quality & Fault Diagnostics .....	3
ELEC ENG 7047 Studies in Electrical & Electronic Engineering A .....	3
ELEC ENG 7049 Power Electronics Systems .....	3
ELEC ENG 7050 Microelectronic Testing and Design for Test .....	3
ELEC ENG 7051 Microelectronic Datapaths and Arithmetic .....	3
ELEC ENG 7052 Electromagnetic Theory and RFID Applications .....	3
ELEC ENG 7053 Analog Microelectronic Systems .....	3
ELEC ENG 7055 Antennas and Propagation.....3	
ELEC ENG 7056 RF Measurement and Testing...3	
ELEC ENG 7057 Engineering Communication & Critical Thinking .....	3
ELEC ENG 7059 Radar Principles and Systems ...3	
ELEC ENG 7060 Image Sensors & Processing .....	3
ELEC ENG 7071 Detection Estimation and Classification.....3	
SIP 7001 Information Theory.....3	

### Engineering Mathematics

APP MTH 7011 Transform Methods and Signal Processing .....	3
APP MTH 7018 Aerodynamics .....	3
APP MTH 7026 Communication Network Design (Masters).....3	
APP MTH 7052 Computational Fluid Dynamics (Engineering).....3	
APP MTH 7056 Telecommunications Systems .....	3
APP MTH 7057 Special Studies in Engineering Mathematics .....	3
APP MTH 7074 Modelling Telecommunication Traffic .....	3
APP MTH 7078 Information Theory .....	3
ELEC ENG 7015 Adaptive Signal Processing.....3	
MECH ENG 7026 Advanced Topics in Fluid Mechanics .....	3

## Management

No more than 3 units selected from:

TECHCOMM 5008 Leading and Managing .....	3
TECHCOMM 5026 Applied Project Management 2 .....	3

## Mechanical Engineering

APP MTH 7018 Aerodynamics .....	3
APP MTH 7052 Computational Fluid Dynamics (Engineering).....	3
CHEM ENG 7047 Composites and Multiphase Polymers .....	3
ELEC ENG 7057 Engineering Communication & Critical Thinking .....	3
MECH ENG 7020 Materials Selection & Failure Analysis .....	3
MECH ENG 7021 Combustion Technology & Emissions Control .....	3
MECH ENG 7023 Fracture Mechanics.....	3
MECH ENG 7024 Robotics M .....	3
MECH ENG 7025 Topics in Welded Structures ....	3
MECH ENG 7026 Advanced Topics in Fluid Mechanics .....	3
MECH ENG 7027 Engineering Acoustics.....	3
MECH ENG 7028 Advanced Automatic Control ...	3
MECH ENG 7029 Airconditioning .....	3
MECH ENG 7030 Advanced Vibrations.....	3
MECH ENG 7034 Advanced Digital Control.....	3
MECH ENG 7036 Environmental & Architectural Acoustics .....	3
MECH ENG 7037 Aerospace Propulsion I .....	3
MECH ENG 7039 Automotive NVH & Aerodynamics .....	3
MECH ENG 7044 Biomedical Engineering .....	3
MECH ENG 7045 CFD for Engineering Applications .....	3
MECH ENG 7050 Sustainability & the Environment.....	3
MECH ENG 7051 Computational Acoustics .....	3
MECH ENG 7055 Wind Engineering .....	3
MECH ENG 7062 Aircraft Design.....	3
MECH ENG 7062 Aircraft Design.....	3
MECH ENG 7063 Adv Topics in Aerospace Engineering.....	3
MECH ENG 7061 Corrosion Principles and Prevention .....	3

## Mechatronic Engineering

APP MTH 7026 Communication Network Design (Masters).....	3
APP MTH 7054 Transform Methods & Signal Processing .....	3

CHEM ENG 7047 Composites and Multiphase Polymers .....	3
ELEC ENG 7015 Adaptive Signal Processing.....	3
ELEC ENG 7033 Principles of RF Engineering.....	3
ELEC ENG 7053 Analog Microelectronic Systems ..	3
ELEC ENG 7057 Engineering Communication and Critical Thinking .....	3
ELEC ENG 7060 Image Sensors and Processing ..	3
ELEC ENG 7065 Sonar Sensors and Systems.....	3
ELEC ENG 7069 Electrical Energy Systems .....	3
MECH ENG 7024 Robotics M .....	3
MECH ENG 7026 Advanced Topics in Fluid Mechanics.....	3
MECH ENG 7027 Engineering Acoustics.....	3
MECH ENG 7028 Advanced Automatic Control ...	3
MECH ENG 7030 Advanced Vibrations.....	3
MECH ENG 7034 Advanced Digital Control.....	3
MECH ENG 7036 Environmental and Architectural Acoustics .....	3
MECH ENG 7039 Automotive NVH & Aerodynamics.....	3
MECH ENG 7050 Sustainability & the Environment.....	3
MECH ENG 7051 Computational Acoustics .....	3
MECH ENG 7055 Wind Engineering .....	3
MECH ENG 7060 Mechanical Signature Analysis.....	3
MECH ENG 7064 Mechatronics IIIM .....	3

The availability of elective courses is conditional on the availability of staff and facilities and sufficient enrolments.

Other relevant courses may be presented towards the requirements of the Master of Engineering with the approval of Faculty.

### 4.3 Unacceptable combination of courses

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

### 4.4 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.





# Master of Engineering (Advanced) in: Aerospace Engineering *or* Chemical Engineering - Energy & Combustion *or* Chemical Engineering - Environmental & Sustainability *or* Chemical Engineering - Food & Bio Processing *or* Civil & Environmental Engineering *or* Civil & Structural Engineering *or* Electrical Engineering *or* Mechanical Engineering *or* Mechatronic Engineering *or* Sensor Systems and Signal Processing *or* Telecommunications

## 1 Duration of program

Except with the permission of the Faculty, the Master of Engineering (Advanced) shall be completed in a minimum of four semesters or a maximum of sixteen semesters.

## 2 Admission

2.1 Except as provided for in 2.2 below, an applicant for admission to the program shall have qualified for an award either from or accepted by the Faculty of Engineering, Computer and Mathematical Sciences as being equivalent to the degree of Bachelor of Engineering with Honours in a discipline related to the proposed field of study.

2.2 The Faculty may, in exceptional circumstances and subject to such conditions (if any) as it may see fit to impose, accept as a candidate for the degree of Master of Engineering (Advanced), a person who does not hold the qualifications specified in 2.1 above, but has given evidence satisfactory to the Faculty of fitness to undertake work for the degree.

### 2.3 Status or exemption

A candidate may not present for credit towards the degree any course which has been presented as part of the requirements for any other award of this University or other institution, or which in the opinion of the Faculty is substantially similar to such course.

### 2.4 Articulation with other awards

2.4.1 A candidate who has been enrolled in the Master of Engineering from the University of Adelaide and who has not been awarded the Master of

Engineering shall, on written application, be permitted to transfer all equivalent courses towards the Master of Engineering (Advanced) degree.

2.4.2 A candidate who holds the Master of Engineering from the University of Adelaide shall surrender the Master of Engineering before being awarded the degree of Master of Engineering (Advanced)

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Master of Engineering (Advanced): Pass with High Distinction, Pass with Distinction, Pass with Credit, and Pass. Courses passed with a Conceded Pass classification may not be counted towards the requirements for the degree of Master of Engineering (Advanced).

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

3.3 A candidate who fails in a course and desires to take the course again shall again attend the course and satisfactorily do such written and practical work as the teaching staff concerned may prescribe, unless specifically exempted therefrom after written application to the Faculty for such exemption.

3.4 A candidate who has twice failed any course may not enrol for that course again except by special permission of the Faculty and then only under such conditions as may be prescribed.

- 3.5 For the purpose of this Rule, a candidate who is refused permission to sit for the assessment for a given course, or who without a reason accepted by the Executive Dean of the Faculty (or nominee) fails to attend all or part of the assessment, shall be deemed to have failed that course.

## 4 Qualification requirements

- 4.1 To qualify for the degree of Master of Engineering (Advanced), a candidate shall satisfactorily complete 48 units of study comprising:

- a coursework to a total value of at least 36 units including core courses from Group A to the value of 9 units, and elective courses from Group B in one of the specified disciplines, to a value of at least 27 units. No more than 3 units may be selected from the Management electives under Group B\*
- b a research project from Group C in one of the specified disciplines to the value of 12 units.

Candidates must have their program of studies approved by the Head of School or nominee at enrolment.

\* Candidates undertaking the disciplines of Aerospace, Mechanical or Mechatronic Engineering are not permitted to present any Management electives

### 4.2 Academic program

#### A Core courses

STATS 7053 Statistics in Engineering .....	3
TECHCOMM 5021 Applied Project Management I .....	3
<i>and either</i>	
APP MTH 7054 System Modelling & Simulation.....	3
<i>or</i>	
COMP SCI 7077 System Modelling & Simulation ..	3

#### B Elective courses

##### Aerospace Engineering

APP MTH 7018 Aerodynamics .....	3
APP MTH 7052 Computational Fluid Dynamics ...	3
CHEM ENG 7047 Composites and Multiphase Polymers .....	3
MECH ENG 7021 Combustion Technology and Emissions Control .....	3
MECH ENG 7023 Fracture Mechanics .....	3
MECH ENG 7024 Robotics M .....	3
MECH ENG 7026 Advanced Topics in Fluid Mechanics .....	3
MECH ENG 7027 Engineering Acoustics.....	3
MECH ENG 7028 Advanced Automatic Control ...	3
MECH ENG 7030 Advanced Vibrations.....	3
MECH ENG 7034 Advanced Digital Control.....	3
MECH ENG 7035 High-Speed Aerodynamics.....	3
MECH ENG 7037 Aerospace Propulsion 1 .....	3

MECH ENG 7038 Aerospace Propulsion 2 .....	3
MECH ENG 7043 Stresses in Plates and Shells ...	3
MECH ENG 7045 CFD for Engineering Applications .....	3
MECH ENG 7051 Computational Acoustics .....	3
MECH ENG 7050 Sustainability and the Environment.....	3
MECH ENG 7055 Wind Engineering .....	3
MECH ENG 7053 Aerospace Propulsion .....	3
MECH ENG 7059 Finite Element Analysis of Structures .....	3
MECH ENG 7060 Mechanical Signature Analysis....	3
MECH ENG 7061 Corrosion Principles and Prevention .....	3
MECH ENG 7062 Aircraft Design.....	3
MECH ENG 7063 Advanced Topics in Aerospace Engineering.....	3

#### Chemical Engineering

Note: not all courses are offered each year. Students are advised to check with the postgraduate coursework coordinator before enrolling in this program.

##### *Energy and Combustion:*

CHEM ENG 7032 Principles of Sustainability & Decision Making .....	3
CHEM ENG 7033 Chemometrics .....	3
CHEM ENG 7034 Environmental Modelling .....	3
CHEM ENG 7036 Air Pollution.....	3
CHEM ENG 7037 Combustion and Energy Engineering .....	3
CHEM ENG 7039 Pinch Analysis.....	3
CHEM ENG 7040 Thermal & Separation Processes .....	3
CHEM ENG 7041 Advanced Rheology and Polymer Process .....	3
CHEM ENG 7042 Advanced Chemical Engineering Thermodynamics.....	3
CHEM ENG 7044 Food Engineering .....	3
CHEM ENG 7045 Advanced Fluid Mechanics .....	3
<i>Environment and Sustainability:</i>	
CHEM ENG 7031 Communications & Management .....	3
CHEM ENG 7032 Principles of Sustainability & Decision Making .....	3
CHEM ENG 7033 Chemometrics .....	3
CHEM ENG 7034 Environmental Modelling .....	3
CHEM ENG 7035 Wastewater Treatment.....	3
CHEM ENG 7036 Air Pollution .....	3
CHEM ENG 7037 Combustion and Energy Engineering .....	3
CHEM ENG 7038 Process Plant Safety & Risk Assessment.....	3

CHEM ENG 7039 Pinch Analysis.....	3
CHEM ENG 7040 Thermal & Separation Processes .....	3
CHEM ENG 7041 Advanced Rheology and Polymer Process.....	3
CHEM ENG 7042 Advanced Chemical Engineering Thermodynamics.....	3
ELEC ENG 7057 Engineering Communication and Critical Thinking .....	3
<i>Food and BioProcessing:</i>	
CHEM ENG 7032 Principles of Sustainability & Decision Making.....	3
CHEM ENG 7033 Chemometrics .....	3
CHEM ENG 7034 Environmental Modelling .....	3
CHEM ENG 7035 Wastewater Treatment.....	3
CHEM ENG 7039 Pinch Analysis.....	3
CHEM ENG 7045 Advanced Fluid Mechanics .....	3
CHEM ENG 7040 Thermal & Separation Processes .....	3
CHEM ENG 7041 Advanced Rheology and Polymer Process.....	3
CHEM ENG 7043 Bioreaction and Bioseparation Engineering.....	3
CHEM ENG 7044 Food Engineering .....	3
ELEC ENG 7057 Engineering Communication and Critical Thinking .....	3
<b>Civil and Environmental Engineering</b>	
C&ENVENG 7027 Wastewater Engineering & Design.....	3
C&ENVENG 7028 Waste Management Analysis & Design.....	3
C&ENVENG 7029 Environmental Modelling, Management & Design.....	3
C&ENVENG 7034 Deep Foundation Engineering & Design.....	3
C&ENVENG 7035 Expansive Soils & Footing Design.....	3
C&ENVENG 7036 Water Resources Optimisation and Modelling.....	3
C&ENVENG 7037 Water Distribution Systems & Design.....	3
C&ENVENG 7038 Coastal Engineering & Design ..	3
C&ENVENG 7044 Introduction to Environmental Law .....	3
C&ENVENG 7047 Analysis of Rivers and Sediment Transport .....	3
C&ENVENG 7048 Water Resources Sustainability.....	3
<b>Civil and Structural Engineering</b>	
C&ENVENG 7033 Structural Dynamics due to Wind and Earthquake.....	3
C&ENVENG 7034 Deep Foundation Engineering & Design.....	3

C&ENVENG 7035 Expansive Soils & Footing Design.....	3
C&ENVENG 7036 Water Resources Optimisation and Modelling .....	3
C&ENVENG 7037 Water Distribution Systems & Design.....	3
C&ENVENG 7038 Coastal Engineering & Design ..	3
C&ENVENG 7042 Advanced Reinforced Concrete .....	3
C&ENVENG 7046 FRP Retrofitting of Concrete Structures .....	3
C&ENVENG 7047 Analysis of Rivers and Sediment Transport .....	3
C&ENVENG 7048 Water Resources Sustainability and Design.....	3
C&ENVENG 7059 Structural Response to Blast Loading.....	3
C&ENVENG 7061 Computer Methods of Structural Analysis and Design.....	3
<b>Electrical Engineering</b>	
APP MTH 7011 Transform Methods and Signal Processing .....	3
ELEC ENG 7015 Adaptive Signal Processing.....	3
ELEC ENG 7046 Power Quality and Fault Diagnostics.....	3
ELEC ENG 7049 Power Electronic Systems .....	3
ELEC ENG 7057 Engineering Communication and Critical Thinking .....	3
ELEC ENG 7066 Power System Dynamics .....	3
ELEC ENG 7068 Power System Monitoring and Protection.....	3
MECH ENG 7034 Advanced Digital Control.....	3
TECHCOMM 5013 Systems Engineering .....	3
<b>Management</b>	
No more than 3 units selected from:	
TECHCOMM 5008 Leading and Managing .....	3
TECHCOMM 5026 Applied Project Management 2 .....	3
<b>Mechanical Engineering</b>	
APP MTH 7018 Aerodynamics.....	3
APP MTH 7052 Computational Fluid Dynamics ...	3
CHEM ENG 7047 Composites and Multiphase Polymers .....	3
ELEC ENG 7057 Engineering Communication and Critical Thinking .....	3
MECH ENG 7020 Materials Selection & Failure Analysis.....	3
MECH ENG 7021 Combustion Technology & Emissions Control .....	3
MECH ENG 7023 Fracture Mechanics.....	3
MECH ENG 7024 Robotics M .....	3
MECH ENG 7025 Topics in Welded Structures ...	3

MECH ENG 7026 Advanced Topics in Fluid Mechanics .....	3
MECH ENG 7027 Engineering Acoustics.....	3
MECH ENG 7028 Advanced Automatic Control ...	3
MECH ENG 7029 Airconditioning .....	3
MECH ENG 7030 Advanced Vibrations.....	3
MECH ENG 7034 Advanced digital Control.....	3
MECH ENG 7036 Environmental & Architectural Acoustics .....	3
MECH ENG 7037 Aerospace Propulsion I .....	3
MECH ENG 7039 Automotive NVH & Aerodynamics .....	3
MECH ENG 7044 Biomechanical Engineering.....	3
MECH ENG 7045 CFD for Engineering Applications .....	3
MECH ENG 7050 Sustainability and the Environment.....	3
MECH ENG 7051 Computational Acoustics .....	3
MECH ENG 7055 Wind Engineering .....	3
MECH ENG 7064 Mechatronics IIIM .....	3
MECH ENG 7061 Corrosion Principles and Prevention .....	3
<b>Mechatronic Engineering</b>	
APP MTH 7011 Transform Methods & Signal Processing .....	3
APP MTH 7026 Communication Network Design (Masters).....	3
ELEC ENG 7015 Adaptive Signal Processing.....	3
ELEC ENG 7033 Principles of RF Engineering.....	3
ELEC ENG 7053 Analog Microelectronic Systems .....	3
ELEC ENG 7057 Engineering Communication and Critical Thinking .....	3
ELEC ENG 7060 Image Sensors and Processing .	3
ELEC ENG 7065 Sonar Sensors and Systems.....	3
ELEC ENG 7069 Electrical Energy Systems .....	3
MECH ENG 7024 Robotics M.....	3
MECH ENG 7026 Advanced Topics in Fluid Mechanics.....	3
MECH ENG 7027 Engineering Acoustics.....	3
MECH ENG 7028 Advanced Automatic Control ...	3
MECH ENG 7030 Advanced Vibrations.....	3
MECH ENG 7034 Advanced Digital Control.....	3
MECH ENG 7036 Environmental and Architectural Acoustics .....	3
MECH ENG 7039 Automotive NVH & Aerodynamics.....	3
MECH ENG 7045 CFD for Engineering Applications .....	3
MECH ENG 7050 Sustainability and the Environment.....	3
MECH ENG 7051 Computational Acoustics .....	3
MECH ENG 7055 Wind Engineering .....	3
MECH ENG 7059 Finite Element Analysis of Structures .....	3
MECH ENG 7060 Mechanical Signature Analysis.....	3
MECH ENG 7064 Mechatronics IIIM .....	3
<b>Sensor Systems Signal Processing</b>	
APP MTH 7011 Transform Methods & Signal Processing .....	3
ELEC ENG 7015 Adaptive Signal Processing .....	3
ELEC ENG 7017 Beamforming & Array Processing .....	3
ELEC ENG 7033 Principles of RF Engineering .....	3
ELEC ENG 7051 Microelectronic Datapaths & Arithmetic .....	3
ELEC ENG 7052 EM Theory & RFID .....	3
ELEC ENG 7053 Analog Microelectronic Systems .....	3
ELEC ENG 7055 Antennas and Propagation .....	3
APP MTH 7056 Telecommunications Systems Modelling.....	3
ELEC ENG 7057 Engineering Communication and Critical Thinking .....	3
ELEC ENG 7059 Radar Principles and Systems ..	3
ELEC ENG 7060 Image Sensors and Processing .	3
ELEC ENG 7071 Detection Estimation and Classification.....	3
SIP 7001 Information Theory.....	3
<b>Telecommunications</b>	
APP MTH 7011 Transform Methods & Signal Processing .....	3
APP MTH 7026 Communication Network Design .....	3
APP MTH 7056 Telecommunications Systems Modelling.....	3
APP MTH 7074 Modelling Telecommunications Traffic .....	3
ELEC ENG 7015 Adaptive Signal Processing .....	3
ELEC ENG 7017 Beamforming & Array Processing .....	3
ELEC ENG 7033 Principles of RF Engineering.....	3
ELEC ENG 7044 Multimedia Communications.....	3
ELEC ENG 7045 Photonics for Communications.....	3
ELEC ENG 7051 Microelectronic Datapaths & Arithmetic .....	3
ELEC ENG 7052 Electromagnetic Theory and RFID Applications .....	3
ELEC ENG 7053 Analog Microelectronic Systems .....	3
ELEC ENG 7055 Antennas and Propagation.....	3

ELEC ENG 7057 Engineering Communication and Critical Thinking .....	3
ELEC ENG 7071 Detection Estimation and Classification.....	3
SIP 7001 Information Theory.....	3

**C Research Project**

C&ENVENG 7049A/B Masters Civil & Structural Engineering Project .....	12
C&ENVENG 7058A/B Masters Civil & Environmental Engineering Project .....	12
CHEM ENG 7046A/B Masters Project.....	12
ELEC ENG 7058A/B Masters Project .....	12
MECH ENG 7041A/B Masters Project.....	12

The availability of all elective courses is conditional on the availability of staff and facilities and sufficient enrolments.

Other relevant courses may be presented towards the requirements of the Master of Engineering (Advanced) with the approval of the Head of the relevant discipline.

**4.3 Unacceptable combination of courses**

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

**4.4 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.



## 1 General

This document must be read in conjunction with:

- a the General Academic Program Rules for Master by Research Programs (see under Adelaide Graduate Centre, p.18) *and*
- b the Research Student Handbook, published by the Adelaide Graduate Centre.

These documents explain procedures to be followed and contain guidelines on supervision and research for the degree of Doctor of Philosophy and the various Masters Degrees by Research, offered by the University.

All students must comply with both the General Academic Rules and the rules following below, and procedures outlined in the Research Student Handbook.

In addition to the General Academic Program Rules for Masters by Research degrees, in this publication, the following discipline specific rules apply.

## 2 Admission

2.1 In addition to General Academic Program Rule 4.1 on Admission, applicants for admission to candidature for the Master of Engineering Science must hold:

- a a degree of Bachelor of Engineering in the Honours grade from the University of Adelaide *or*
- b a qualification accepted by the Research Education and Development Committee as being equivalent to a degree of Bachelor of Engineering in the Honours grade from the University of Adelaide *or*
- c a degree of Bachelor of Engineering in the Pass grade or a qualification accepted by the Committee as being equivalent to the degree of Bachelor of Engineering in the Pass grade from the University of Adelaide, and who has, in addition, successfully undertaken advanced studies and/or work in engineering practice which is considered by the Committee to be an adequate preparation for candidature. Candidates admitted under this Rule may be required to undertake qualifying work as prescribed by the Board.

### 2.2 Mode of study

In addition to General Academic Program Rule 7.1, subject to such conditions as it may determine in each case, the Research Education and Development Committee may permit project work to be undertaken outside the University provided that it can be satisfied:

- a that this will result in mutual academic benefit to the candidate and the candidate's supervising school
- b that there will be adequate contact and interaction between the candidate and the candidate's supervising school *and*
- c that the supervisor's access to any experimental work, the candidate's availability for seminars and other discussions, and the publication of results will not thereby be prejudiced.

### 2.3 Program of study

In addition to General Academic Program Rule 19.1, a program of study for the Master of Engineering Science may contain a combination of coursework and project work. Currently two options are offered.

To qualify for the degree, a candidate shall satisfactorily complete a program of study consisting of one of the following approved options:

- a an all-research work program comprising Supervised Project Work be completed and the thesis submitted in not less than one year full-time equivalent or more than two years full-time equivalent from the date of commencement of candidature *or*
- b a three-quarters research program comprising coursework to the value of 12 units and Supervised Project Work. All coursework is to be completed and the thesis submitted in not less than one year full-time equivalent or more than two years full-time equivalent from the date of commencement of candidature.

### 2.4 Classification of courses

Courses forming part of any coursework component for the degree shall be classified as follows:

#### A Postgraduate courses

These are courses offered at a postgraduate level either in the Faculty of Engineering, Computer and Mathematical Sciences, in another faculty or school, or at another Institution. These include postgraduate courses in the Faculty of Engineering, Computer and Mathematical Sciences, Honours and approved postgraduate diploma courses in the Faculty of Sciences and postgraduate courses at Flinders University or the University of South Australia.

#### B Advanced level courses

These are courses in Engineering which have been designated as 'Advanced Level' by the School concerned. They are courses which reach an advanced level of expertise in the course material.

Subject to the approval of the Faculty, courses from outside Engineering may also be included in this category.

## C Ordinary level courses

These are courses at either Level III or Level IV in the Faculty of Engineering, Computer and Mathematical Sciences which are not designated 'Advanced Level', or courses at Level III in the Faculty of Sciences, or approved final year undergraduate courses from other Faculties or institutions.

## 2.5 Coursework requirements

- 2.5.1 A candidate seeking to enrol in a program of study with a coursework component shall, after consulting the Head of the school (or nominee) in which the majority of the candidate's work falls, submit the proposed program to the Committee for approval.
- 2.5.2 The program for a three-quarters research and one-quarter coursework may not contain more than a total of 6 units of courses from Groups B and C and may not contain more than 6 units of courses from outside the discipline of Engineering.
- For the purposes of this policy, the discipline of Engineering is deemed to include all Centres and joint ventures of which the discipline, or its constituent schools, is a formal partner.
- 2.5.3 There shall be four classifications of pass in each course for the Master of Engineering Science: Pass with High Distinction, Pass with Distinction, Pass with Credit, and Pass. If a course has a Conceded Pass classification for the purpose of another award, any such course passed with this classification shall not count towards the requirements for the degree of Master of Engineering Science.
- 2.5.4 A course shall be eligible to be counted for credit towards the coursework requirements of the degree if:
- in Groups A and B the grade obtained is at Pass standard (50%) or higher
  - in Group C the grade obtained is 60% or higher.
- 2.5.5 To satisfy the coursework requirements of the degree, a candidate must obtain a weighted average, taken over the best results in eligible courses which together amount to the required number of units, of at least 55%.
- 2.5.6 Courses which have been presented as part of the requirements for any other award of this University or other institution or courses which in the opinion of the Faculty are substantially similar to such courses, will not be permitted to count for credit towards the coursework requirements of this degree.

## 2.6 Academic program

The following shall be the courses for the Master of Engineering Science:

## A Postgraduate courses

### Chemical Engineering

CHEM ENG 7000 Minerals Processing .....	3
CHEM ENG 7004 Biochemical Engineering.....	3
CHEM ENG 7008 Combustion Processes .....	3
CHEM ENG 7009 Plant & Safety Engineering .....	3
CHEM ENG 7010W Winery Engineering.....	3
CHEM ENG 7012 Environmental Engineering .....	3
CHEM ENG 7021 Special Studies in Chemical Engineering.....	3
CHEM ENG 7022 Chemical Engineering Management and Optimisation .....	3
CHEM ENG 7023 Chemical Process Simulation...	3
CHEM ENG 7024 Process Synthesis & Integration..	3
CHEM ENG 7027 Transport Processes in the Environment .....	3
CHEM ENG 7030 Process Modelling & Control....	3

### Civil & Environmental Engineering

C&ENVENG 7027 Wastewater Engineering & Design.....	3
C&ENVENG 7028 Waste Management Analysis & Design .....	3
C&ENVENG 7029 Environmental Modelling, Management & Design .....	3
C&ENVENG 7030 Steel Design.....	3
C&ENVENG 7031 Concrete Design.....	3
C&ENVENG 7033 Structural Dynamics due to Wind and Earthquakes.....	3
C&ENVENG 7034 Deep Foundation Engineering & Design.....	3
C&ENVENG 7035 Expansive Soils & Footing Design .....	3
C&ENVENG 7036 Water Resources Optimisation and Modelling .....	3
C&ENVENG 7037 Water Distribution Systems & Design.....	3
C&ENVENG 7038 Coastal Engineering & Design..	3
C&ENVENG 7042 Advanced Reinforced Concrete .....	3
C&ENVENG 7046 FRP Retrofitting of Concrete Structures .....	3
C&ENVENG 7047 Analysis of Rivers and Sediment Transport .....	3
C&ENVENG 7048 Water Resources Sustainability and Design.....	3
C&ENVENG 7059 Structural Response to Blast Loading.....	3

### Electrical & Electronic Engineering

ELEC ENG 7015 Adaptive Signal Processing.....	3
ELEC ENG 7017 Beamforming & Array Processing .....	3
ELEC ENG 7033 Principles of RF Engineering.....	3

ELEC ENG 7044 Multimedia Communications.....	3
ELEC ENG 7045 Photonics for Communications .....	3
ELEC ENG 7046 Power Quality and Fault Diagnostics .....	3
ELEC ENG 7047 Special Studies in Electrical Engineering .....	3
ELEC ENG 7049 Power Electronics Systems .....	3
ELEC ENG 7050 Microelectronic Testing and Design for Test .....	3
ELEC ENG 7051 Microelectronic Datapaths and Arithmetic .....	3
ELEC ENG 7052 Electromagnetic Theory and RFID Applications .....	3
ELEC ENG 7053 Analog Microelectronic Systems ..	3
ELEC ENG 7054 Detection and Estimation Theory .....	3
ELEC ENG 7055 Antennas and Propagation.....	3
ELEC ENG 7056 RF Measurement and Testing....	3
<b>Entrepreneurship, commercialism &amp; Innovation Centre (EIC)</b>	
TECHCOMM 5008 Leading and Managing.....	3
TECHCOMM 5016 Entrepreneurship & Innovation .....	3
TECHCOMM 5017 New Enterprise Financial Management .....	3
TECHCOMM 5018 Opportunity Assessment .....	3
TECHCOMM 5019 New Enterprise Marketing .....	3
TECHCOMM 5020 New Enterprise Operations.....	3
TECHCOMM 5021 Applied Project Management 1 .....	3
<b>Mathematical and Computer Sciences</b>	
APP MTH 7026 Communication Network Design (Masters).....	3
APP MTH 7043 Transform Methods & Signal Processing .....	2
APP MTH 7050 Aerodynamics .....	3
APP MTH 7052 Computational Fluid Dynamics (Engineering).....	3
APP MTH 7056 Telecommunications Systems Modelling .....	3
APP MTH 7057 Special Studies in Engineering Mathematics .....	3
APP MTH 7078 Information Theory .....	3
<b>Mechanical Engineering</b>	
MECH ENG 7020 Materials Selection & Failure Analysis.....	3
MECH ENG 7021 Combustion Technology & Emissions Control .....	3
MECH ENG 7022 Fundamentals of Non-Linear Computational Mechanics.....	3
MECH ENG 7023 Fracture Mechanics.....	3
MECH ENG 7024 Robotics M .....	3
MECH ENG 7025 Topics in Welded Structures ....	3
MECH ENG 7026 Advanced Topics in Fluid Mechanics.....	3
MECH ENG 7027 Engineering Acoustics.....	3
MECH ENG 7028 Advanced Automatic Control ...	3
MECH ENG 7029 Airconditioning .....	3
MECH ENG 7030 Advanced Vibrations.....	3
MECH ENG 7031 Aerospace Navigation and Guidance.....	3
MECH ENG 7044 Biomechanical Engineering.....	3
<b>Petroleum Engineering and Management</b>	
PETROENG 7001 Petrophysics .....	2
PETROENG 7002 Reservoir Engineering .....	2
PETROENG 7006 Petroleum Project Economics ..	2
PETROENG 7009 Decision-Making and Risk Analysis .....	2
PETROENG 7012 Oil and Gas Resources & Reserves .....	2
PETROENG 7023 Project Management .....	2
PETROENG 7031 Reservoir Characterisation and Modelling .....	3
PETROENG 7032 Integrated Reservoir Management .....	2
PETROENG 7035 Reservoir Simulation.....	3
PETROENG 7038 Well Testing and Pressure Transient Analysis.....	3
PETROENG 7040 Enhanced Oil Recovery .....	3
PETROENG 7041 Gas Fields Optimisation .....	2
PETROENG 7043 Integrated Field Development..	3
PETROENG 7044 Petroleum Geology & Geophysics .....	2
PETROENG 7050 Production Engineering and Optimisation .....	3
PETROENG 7042 Drilling Engineering and Well Completion .....	3
PETROENG 7049 Advanced Managerial Decision Making & Risk Analysis .....	3
PETROENG 7048 Petroleum Exploration & Management .....	3
<b>B Advanced courses</b>	
Level IV Engineering courses, which have been designated as 'Advanced Level' by the School concerned; details available from the Schools.	
<b>C Ordinary level courses</b>	
Level III and IV courses (not included above) in the Faculties of Engineering, Computer and Mathematical Sciences, and Sciences.	
Notwithstanding the above, the availability of all courses is conditional on the availability of staff and facilities and sufficient enrolments.	



## 1 Duration of program

Except with the permission of the Faculty, the Master of Geostatistics shall be completed in a minimum of three semesters or a maximum of twelve semesters

## 2 Admission

- 2.1 Except as provided for in 2.2 below, an applicant for admission to the program shall have qualified for a Bachelor degree with Honours from the University of Adelaide in a discipline related to the proposed field of study, or a degree of another institution accepted by the Faculty of Engineering, Computer and Mathematical Sciences as being equivalent.
- 2.2 The Faculty may, in exceptional circumstances and subject to such conditions (if any) as it may see fit to impose, accept as a candidate for the degree of Master of Geostatistics, a person who does not qualify in 2.1 above, but has given evidence satisfactory to the Faculty of fitness to undertake work for the degree.

### 2.3 Status or exemption

- a A candidate may not present for credit towards the degree any course which has been presented for any other award of this University or other institution, or which in the opinion of the Faculty is substantially similar to such course.
- b A candidate who has passed courses in this or other educational institutions and who has not presented these courses towards an award may, on written application to the Faculty, be granted such exemption from the requirements of these Rules as the Faculty shall determine. Status may be granted for a maximum of 9 units under Clause 4.2 of the Academic Program Rules.

## 3 Assessment and examinations

- 3.1 There shall be four classifications of pass in any course for the Master Geostatistics: Pass with High Distinction, Pass with Distinction, Pass with Credit, and Pass. Courses passed with a Conceded Pass classification may not be counted towards the requirements for the degree of Master of Geostatistics.
- 3.2 A candidate shall not be eligible to attend for examination unless any prescribed coursework has been completed to the satisfaction of the teaching staff concerned.

- 3.3 A candidate who fails in a course and desires to take the course again shall again attend the course and satisfactorily do such written and practical work as the teaching staff concerned may prescribe, unless specifically exempted therefrom after written application to the Faculty for such exemption.
- 3.4 A candidate who has twice failed any course may not enrol for that course again except by special permission of the Faculty and then only under such conditions as may be prescribed.
- 3.5 For the purpose of this Rule, a candidate who is refused permission to sit for the assessment for a given course, or who without a reason accepted by the Executive Dean of the Faculty (or nominee) fails to attend all or part of the assessment, shall be deemed to have failed that course.

## 4 Qualification requirements

- 4.1 To qualify for the degree of Master of Geostatistics, a candidate shall satisfactorily complete courses to a total value of at least 36 units including core courses to the value of 24 units and supervised project work and seminar presentation to the value of 12 units.

Candidates must have their program of studies approved by the Postgraduate Coordinator or nominee at enrolment.

### 4.2 Academic program

#### 4.2.1 Prerequisite course

C8ENVENG 7043 Introduction to Geostatistics\* .. 3

#### 4.2.2 Core courses

i	C8ENVENG 7056 Linear Geostatistics <sup>+</sup> .....	3
	STATS 7061 Statistical Analysis <sup>+</sup> .....	3
ii	C8ENVENG 7054 Computing for Geostatistics .....	2
	C8ENVENG 7055 Selection and Recoverability .....	2
	C8ENVENG 7057 Non-stationarity .....	2
	C8ENVENG 7053 Non-linear Geostatistics .....	3
	C8ENVENG 7052 Geostatistical Simulation .....	3
	STATS 7062 Multivariate Geostatistics .....	3

\* C8ENVENG 7043 Introduction to Geostatistics is a prerequisite for all other courses in this program.

<sup>+</sup> C8ENVENG 7056 and STATS 7061 must be completed after C8ENVENG 7043 and before other courses

#### 4.2.3 Project

A candidate shall undertake and complete satisfactorily a Project under the guidance of a supervisor, and provide a public seminar and written dissertation on the investigation.

C&ENVENG 7051 Geostatistics -  
Project & Thesis (Full-time) ..... 12

*or*

C&ENVENG 7060A/B Geostatistics -  
Project & Thesis (Part-time)..... 12

#### 4.3 Unacceptable combination of courses

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

#### 4.4 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.



# Master of Information Technology

**Note: There will be no further intake into this program.**

## 1 Duration of program

Except with the permission of the Faculty, the Master of Information Technology shall be completed in a minimum of two semesters or a maximum of four semesters.

## 2 Admission

2.1 The Faculty may accept as a candidate for the degree any person who has completed one of the following at the University of Adelaide:

- Graduate Certificate in Computer Science
- Graduate Diploma in Computer Science
- Bachelor degree that includes a major in Computer Science.

2.2 The Faculty may accept as a candidate for the degree any person who has completed studies at another institution, where those studies are accepted by the University as equivalent to studies specified in 2.1 above.

2.3 Subject to the approval of Council, the Faculty may, in special cases accept as a candidate for the degree a person who does not hold the qualifications specified in 2.1 or 2.2.

2.4 A candidate admitted under 2.3 above will be required to undertake such additional compulsory work as the Faculty may determine. This additional work will not exceed 12 units of study and may be taken concurrently with the Masters study.

### 2.5 Credit transfer

A candidate who has passed courses in this or other educational institutions and who has not presented these courses towards any award may, on written application to the Faculty, be granted such exemption from the requirements of these rules as the Faculty shall determine. Status may be granted for a maximum of 9 units under 4.2.2 of the Academic Program Rules.

## 3 Assessment and examinations

3.1 No material presented for any other degree within this or any other institution shall be submitted unless otherwise permitted by the Head of School or nominee.

3.2 There shall be four classifications of Pass in each course for the degree: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.3 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.

3.4 A candidate who fails in 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, unless specifically exempted after written application to the Faculty for exemption.

3.5 A candidate who has twice failed in any course may not enrol for that course again except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 3.6 Academic progress

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

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the degree a candidate shall:

- i satisfactorily complete any additional compulsory work which may be prescribed *and*
- ii satisfy examiners in courses of study prescribed in these rules.

### 4.2 Courses of study and project work

4.2.1 The program consists of 36 units of study which shall normally extend over one and a half years of full-time study, and consists of two components:

- a computer science courses *and*
- b management courses

4.2.2 To qualify for the degree a candidate shall satisfactorily complete a program of study comprising courses as follows:

- a at least 24 units of non-project courses offered by the School of Computer Science at the Honours or Masters level.

- i The courses presented must include:  
COMP SCI 7007 Specialised  
Programming.....3

The requirements of this clause may be waived by the Head of School on a case-by-case basis

- ii Courses listed in clause 4.1.1 of the Academic Program Rules for the Graduate Diploma in Computer Science may not be presented

- iii A maximum of 9 units of courses listed in clause 4.1.2 of the Academic Program Rules for the Graduate Diploma in

Computer Science may be presented for the degree.

- b the balance made up of any of the following:
    - i information technology related courses as offered at Level IV, Level V, Honours and postgraduate courses drawn from Engineering, and Mathematical and Computer Sciences. Students must have the appropriate prerequisites for the courses selected
    - ii management courses selected from those offered by the Adelaide Graduate School of Business or the Centre for Innovation and Commercialisation as approved by the Postgraduate Coordinator
    - iii other courses to the value of up to 6 units may be included subject to the approval of the Postgraduate Coordinator.
- 4.2.3 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.
- 4.2.4 To complete a program of study in a course a candidate shall, unless exempted by the Postgraduate Coordinator offering the course:
- a regularly attend the prescribed lectures, tutorials, workshops and seminars *and*
  - b undertake such computing work, project work, practical work, field work and case studies, do such reading, written and oral work and pass such examinations as the head of the school offering the course may prescribe.
- 4.2.5 Each candidate's program of study must be approved by the Postgraduate Coordinator (or nominee) at enrolment each year.

#### 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.

Notes:

- 1 Not all electives will necessarily be offered in any one year
- 2 Students may be interviewed to assess their suitability for course choices.

# Master of Innovation and Entrepreneurship

**Note:** There will be no further intake into this program.

## 1 Duration of program

Except with the permission of the Faculty, the Master of Innovation and Entrepreneurship shall be completed in a minimum of three semesters or a maximum of eight semesters

## 2 Admission

2.1 Except as provided for in 2.2 below, a candidate for admission to the program of study for the Master of Innovation and Entrepreneurship shall have qualified either for the Graduate Certificate in Business Enterprise (SME); or for a degree of the University or another institution accepted by the University for the purpose as equivalent, and shall have had at least 5 years approved professional work experience.

2.2 The Faculty may, in special cases and subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the degree a person who does not qualify for admission to the program under 2.1 above but has given evidence satisfactory to the Faculty of fitness to undertake work for the degree.

### 2.3 Status, exemption and credit transfer

Except with the special permission of the Faculty, no candidate will be granted status for any course that he or she has presented for another award other than the Graduate Certificate in Business Enterprise (SME) (see 2.4 below). Such status as may be awarded in exceptional circumstances will only be awarded for graduate level studies.

### 2.4 Articulation with other awards

A candidate who has been admitted to the Graduate Certificate in Business Enterprise (SME) and who has been granted status toward the Master of Innovation and Entrepreneurship for courses presented for the Graduate Certificate must surrender the Graduate Certificate before being admitted to the Master of Innovation and Entrepreneurship.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in each course for the Master: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

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

3.3 A candidate who fails to pass in a course and desires to take the course again shall again undertake study and satisfactorily do such written and practical work as the teaching staff concerned

may prescribe, unless specifically exempted therefrom after written application to the Faculty for such exemption.

3.4 A candidate who has twice failed the examination in any course or division of a course may not enrol for the course again except by special permission of the Faculty and then only under such conditions as may be prescribed.

3.5 For the purpose of this Rule, a candidate who is refused permission to sit for examination, or who fails to attend all or part of a final examination (or supplementary examination if granted) after being 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

4.1 To qualify for the Master of Innovation and Entrepreneurship, a candidate shall satisfactorily complete courses to the total value of 24 units, comprising five core courses to the value of 15 units plus elective courses to the value of at least 9 units as given below.

### 4.1.1 Core courses

TECHCOMM 5016 Entrepreneurship and Innovation .....	3
TECHCOMM 5005 Financing Commercialisation ..	3
TECHCOMM 5018 Opportunity Assessment .....	3
TECHCOMM 5019 New Enterprise Marketing ....	3
TECHCOMM 5020 New Enterprise Operations ...	3

### 4.1.2 Elective courses

TECHCOMM 5002 Managing Product Design and Development .....	3
TECHCOMM 5004 Managing Risk .....	3
TECHCOMM 5007 Legal Issues of the Commercialisation Process .....	3
TECHCOMM 5008 Leading and Managing .....	3
TECHCOMM 5021 Applied Project Management 1 .....	3
TECHCOMM 5025 Commercialisation: Process & Strategy .....	3
TECHCOMM 5028 A/B Project in Entrepreneurship* .....	9
TECHCOMM 5029 Project in Entrepreneurship (6 units) * .....	6
TECHCOMM 5030 Project in Entrepreneurship (3 units) * .....	3
TECHCOMM 7021A/B Project in Entrepreneurship (6 units) * .....	6

\* Before enrolling in these project courses, students need to have passed all core courses.

#### **4.2 Unacceptable combination of courses**

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

#### **4.3 Graduation**

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

### **5 Special circumstances**

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

## 1 Duration of program

Except with the permission of the Faculty, the Master of Marine Engineering shall be completed in a minimum of three semesters or a maximum of twelve semesters.

## 2 Admission

2.1 Except as provided for in 2.2 below, an applicant for admission to the program shall have qualified for:

- a a four-year degree with Honours in a relevant engineering discipline from the University of Adelaide, or a degree from another institution accepted by the Faculty of Engineering, Computer and Mathematical Sciences as being equivalent *or*
- b a four year degree in a relevant engineering discipline of the University of Adelaide or a degree of another institution accepted by the Faculty of Engineering, Computer and Mathematical Sciences as being equivalent, and have not less than two years full-time (or part-time equivalent) work experience in a relevant field *or*
- c a Graduate Diploma in Marine Engineering.

2.2 The Faculty may, in exceptional circumstances and subject to such conditions (if any) as it may see fit to impose, accept as a candidate for the degree of Master of Marine Engineering, a person who does not qualify in 2.1 above, but has given evidence satisfactory to the Faculty of fitness to undertake work for the degree.

### 2.3 Status or exemption

A candidate may not present for credit towards the degree any course which has been presented for any other award of this University or other institution, or which in the opinion of the Faculty is substantially similar to such course. Such a candidate will be required to undertake an alternative course as approved by the Head of School or nominee.

A candidate who has passed courses in this or other educational institutions and who has not presented these courses towards an award may, on written application to the Faculty, be granted such exemption from the requirements of these Rules as the Faculty shall determine. Subject to the conditions specified in Clause 4.1 (b), status may be granted for a maximum of 9 units under Clause 4.2 of the Academic Program Rules.

### 2.4 Articulation with other awards

2.4.1 A candidate who has been enrolled for the Graduate Certificate or Graduate Diploma in Marine Engineering at the University of Adelaide

and who has not been awarded the Graduate Certificate or Graduate Diploma shall, on written application, be permitted to transfer all equivalent courses towards the Masters degree.

2.4.2 A candidate who holds the Graduate Certificate or Graduate Diploma in Marine Engineering from the University of Adelaide shall surrender the Graduate Certificate or Graduate Diploma before being awarded the Masters degree.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Master Marine Engineering: Pass with High Distinction, Pass with Distinction, Pass with Credit, and Pass. Courses passed with a Conceded Pass classification may not be counted towards the requirements for the degree of Master of Marine Engineering.

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

3.3 A candidate who fails in a course and desires to take the course again shall again attend the course and satisfactorily do such written and practical work as the teaching staff concerned may prescribe, unless specifically exempted therefrom after written application to the Faculty for such exemption.

3.4 A candidate who has twice failed any course may not enrol for that course again except by special permission of the Faculty and then only under such conditions as may be prescribed.

3.5 For the purpose of this Rule, a candidate who is refused permission to sit for the assessment for a given course, or who without a reason accepted by the Executive Dean of the Faculty (or nominee) fails to attend all or part of the assessment, shall be deemed to have failed that course

## 4 Qualification requirements

4.1 To qualify for the degree of Master of Marine Engineering, a candidate shall satisfactorily complete courses to a total value of at least 36 units including:

- a i core courses to the value of 9 units from 4.2.1 (a) or (b)
- ii the remaining courses may be chosen from 4.2.2, 4.2.3 or both of them. Candidates are not obliged to complete all of the courses from a particular stream. However, it is suggested that it may be preferable for a candidate to complete all courses listed within the chosen stream.

- b at least 21 units of study must be taken from courses taught by the University of Adelaide.  
Candidates must have their program of studies approved by the Postgraduate Coordinator or nominee at enrolment.

## 4.2 Academic program

### 4.2.1 Core Courses

#### a Submarine

##### University of Adelaide

MECH ENG 7042 Introduction to Submarine Design..... 3

MECH ENG 7046 Submarine Design 102.....3

##### University of South Australia

Systems Engineering for Complex Problem Solving..... 3

*or*

TECH COMM 5013 Systems Engineering 1\*.. 3

\* Only with the permission of the Faculty

#### b Naval Ships

##### University of Adelaide

MECH ENG 7048 Introduction to Naval Ship Design.....3

##### University of South Australia

Systems Engineering for Complex Problem Solving ..... 3

A further course in Naval Ships stream will be available in 2010.

### 4.2.2 Foundation streams

#### a Hull stream

##### University of Adelaide

MECH ENG 7020 Materials Selection & Failure Analysis..... 3

MECH ENG 7023 Fracture Mechanics..... 3

MECH ENG 7025 Topics in Welded Structures ..... 3

MECH ENG 7043 Stresses in Plates and Shells ..... 3

#### b Electrical stream

##### University of Adelaide

ELEC ENG 7048 Principles of Control Systems ..... 3

ELEC ENG 7049 Power Electronics Systems.. 3

ELEC ENG 7069 Electrical Energy Systems ...3

MECH ENG 7027 Engineering Acoustics ..... 3

#### c Mechanical stream

##### University of Adelaide

MECH ENG 7020 Materials Selection and Failure Analysis..... 3

MECH ENG 7030 Advanced Vibrations ..... 3

MECH ENG 7059 Finite Element Analysis of Structures ..... 3

#### Australian Maritime College

Design of Marine Machinery Systems..... 3

#### d Signature stream

##### University of Adelaide

ELEC ENG 7065 Sonar Sensors & Systems... 3

MECH ENG 7027 Engineering Acoustics ..... 3

MECH ENG 7030 Advanced Vibrations ..... 3

##### Curtin University

Physical and Acoustical Oceanography..... 3

#### e Systems Engineering Stream

##### University of Adelaide

TECHCOMM 7029 Systems Engineering 2 .... 3

##### University of South Australia

Management of Small Systems Engineering Design Teams ..... 3

Military Systems - Operational and Technological Integration ..... 3

Requirements Engineering ..... 3

Principles of Test Evaluation..... 3

### 4.2.3 Electives\*

#### a Hull stream

##### University of Adelaide

APP MTH 7055 Computational Fluid Dynamics..... 3

CHEM ENG 7047 Composites and Multiphase Polymers ..... 3

MECH ENG 7026 Advanced Topics in Fluid Mechanics ..... 3

MECH ENG 7059 Finite Element Analysis of Structures ..... 3

MECH ENG 7061 Corrosion Principles and Prevention..... 3

Project in Marine Engineering..... 12

*either*

TECHCOMM 5021 Applied Project Management 1 ..... 3

*or*

##### RMIT

Risk & Technology Decisions ..... 3

##### ACA

Coatings Engineering ..... 3

#### b Electrical Stream

##### University of Adelaide

ELEC ENG 7046 Power Quality & Fault Diagnosis ..... 3

MECH ENG 7034 Advanced Digital Control ...3

Project in Marine Engineering..... 12

*either*

TECHCOMM 5021 Applied Project Management 1 ..... 3



	<i>or</i>	
	<b>RMIT</b>	
	Risk and Technology Decisions.....	3
	<b>University of South Australia</b>	
	Electromagnetic Compatibility .....	3
	<b>Curtin University</b>	
	Marine Acoustics.....	3
<b>c</b>	<b>Mechanical Stream</b>	
	<b>University of Adelaide</b>	
	APP MTH 7055 Computational Fluid Dynamics .....	3
	MECH ENG 7026 Advanced Topics in Fluid Mechanics .....	3
	MECH ENG 7043 Stresses in Plates and Shells .....	3
	MECH ENG 7060 Mechanical Signature Analysis.....	3
	Project in Marine Engineering.....	12
	<i>either</i>	
	TECHCOMM 5021 Applied Project Management 1 .....	3
	<i>or</i>	
	<b>RMIT</b>	
	Risk and Technology Decisions.....	3
<b>d</b>	<b>Signature Stream</b>	
	<b>University of Adelaide</b>	
	APP MTH 7075 Fluid Mechanics III .....	3
	ELEC ENG 7015 Adaptive Signal Processing .	3
	ELEC ENG 7017 Beamforming and Array Processing .....	3
	MECH ENG 7026 Advanced Topics in Fluid Mechanics .....	3
	MECH ENG 7060 Mechanical Signature Analysis.....	3
	Project in Marine Engineering.....	12
	<i>either</i>	
	TECHCOMM 5021 Applied Project Management 1 .....	3
	<i>or</i>	
	<b>RMIT</b>	
	Risk and Technology Decisions.....	3
	<b>Curtin University</b>	
	Marine Acoustics.....	3
<b>e</b>	<b>Systems Stream</b>	
	<b>University of Adelaide</b>	
	COMP SCI 7076 Distributed Systems .....	3
	ELEC ENG 7017 Beam Forming and Array Processing .....	3
	ELEC ENG 7033 Principles of RF Engineering.....	3

	ELEC ENG 7054 Detection, Estimation and Classification .....	3
	ELEC ENG 7055 Antennas & Propagation.....	3
	ELEC ENG 7065 Sonar Sensors & Systems....	3
	SIP 7023 Satellite Communications.....	3
	Project in Marine Engineering.....	12
	<i>either</i>	
	TECHCOMM 5021 Applied Project Management 1 .....	3

	<i>or</i>	
	<b>RMIT</b>	
	Risk and Technology Decisions.....	3

**(f) Research**

	Marine Engineering Research Project A .....	6
	Marine Engineering Research Project B .....	6

**4.3 Unacceptable combination of courses**

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

**4.4 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**

### Postgraduate Programs in Marine Engineering

- Knowledge and understanding of the content and techniques of Marine Engineering 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.

## 1 Duration of program

Except with the permission of the Faculty, the Master of Mathematical Sciences shall be completed in a minimum of two semesters or a maximum of eight semesters.

## 2 Admission

- 2.1 The Faculty shall appoint one or more supervisors to guide a candidate's work.
- 2.2 The following may be accepted as a candidate for the degree:
- a person who has qualified in the University of Adelaide for the Honours degree of Bachelor of Mathematical and Computer Sciences or the Honours degree of Bachelor of Engineering or the Honours degree of Bachelor of Science in Mathematical Physics, or holds another academic qualification accepted by the Faculty as equivalent.
  - a person who has qualified in the University of Adelaide for the degree of Bachelor of Engineering, Science or Applied Science or holds another academic qualification accepted for the purpose by the Faculty. A person admitted under this sub-Rule will normally be required satisfactorily to complete sufficient work of Honours standard as is deemed necessary by the Faculty in addition to satisfying the requirements of the Masters degree.
- 2.3 Subject to the approval of the Council the Faculty may, in exceptional circumstances and subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the degree a person who does not qualify under 2.2 above but who has given evidence satisfactory to the Faculty of fitness to undertake work for the degree.
- ### 2.4 Preliminary work
- 2.4.1 A person whose qualifications have been accepted under 2.2(a) shall be deemed to have satisfied the requirements of this schedule.
- 2.4.2 A candidate admitted under either 2.1(b) or 2.2 shall complete the requirements of this Rule by undertaking, and satisfying the examiners in, such programs of study and/or other work as may in his or her case be prescribed by the Faculty. The purpose of this schedule is that the person should demonstrate the ability to perform at Honours standard.
- ### 2.5 Academic progress
- If in the opinion of the Faculty a candidate is not making satisfactory progress the Faculty may, with the consent of the Council, terminate the candidature.

## 3 Qualification requirements

- 3.1 To qualify for the degree a candidate shall:
- pass such examination on the candidate's program of advanced study as may be required by the Faculty *and*
  - present a satisfactory dissertation on the candidate's project.
- ### 3.2 Project work
- Subject to such conditions as it may determine, the Faculty may permit project work to be undertaken outside the University provided that it can be satisfied:
- that this will result in mutual academic benefit to the candidate and the supervising school
  - that there will be adequate contact and interaction between the candidate and the supervising school *and*
  - that the supervisor's access to any experimental work, the candidate's availability for seminars and other discussions, and the publication of results will not thereby be prejudiced.
- ### 3.3 Academic program
- 3.3.1 The program of study and project work to the value of at least 24 units shall consist of:
- supervised project work and seminar presentation from one of the following:
 

APP MTH 7007 Masters Applied Mathematics Minor Project.....	6
PURE MTH 7008 Masters Pure Mathematics Project .....	6
STATS 7001 Masters Statistics Project .....	6

Note: intending students should consult the relevant school early in the year in which they plan to study in order to ascertain whether particular courses will be available in that year, which semester they will be taught and their precise content
  - courses chosen from the following list
 

<b>Applied Mathematics</b>	
APP MTH 7000 Applied Mathematics Topic D.....	3
APP MTH 7011 Transform Methods and Signal Processing .....	3
APP MTH 7018 Aerodynamics.....	3
APP MTH 7026 Communication Network Design.....	3
APP MTH 7044 Applied Mathematics Topic C.....	3

APP MTH 7045 Applied Mathematics Topic B .....	3
APP MTH 7048 Applied Mathematics Topic A .....	3
APP MTH 7052 Computational Fluid Dynamics .....	3
APP MTH 7054 System Modelling & Simulation .....	3
APP MTH 7078 Information Theory .....	3
<b>Mathematical Physics</b>	
PHYSICS 7004 Advanced Electromagnetism...	3
PHYSICS 7008 Gauge Theory .....	3
PHYSICS 7009 General Relativity .....	3
PHYSICS 7014 Relativistic Quantum Mechanics and Particle Physics.....	3
PHYSICS 7015 Statistical Mechanics/ Many-Body Theory .....	3
PHYSICS 7024 Topics in Mathematical Physics A .....	3
PHYSICS 7025 Topics in Mathematical Physics B .....	3
<b>Pure Mathematics</b>	
PURE MTH 7038 Pure Mathematics Topic A ...	3
PURE MTH 7002 Pure Mathematics Topic B ...	3
PURE MTH 7023 Pure Mathematics Topic D ...	3
PURE MTH 7047 Pure Mathematics Topic C ...	3
PURE MTH 7066 Pure Mathematics Topic E ...	3
PURE MTH 7067 Pure Mathematics Topic F ...	3
<b>Statistics</b>	
STATS 7004 Statistics Topic A .....	3
STATS 7008 Statistics Topic D .....	3
STATS 7014 Statistics Topic B .....	3
STATS 7016 Statistics Topic C .....	3
STATS 7069 Statistics Topic E .....	3
STATS 7070 Statistics Topic F .....	3
(c) other courses offered by the University of Adelaide or other tertiary institutions in South Australia which are accepted by the Faculty as being equivalent to those listed above.	
(d) Students may present other relevant courses or work, to the value of at most six units, as may be approved by the Faculty.	

3.3.2 The availability of all courses in any year is conditional on there being adequate staffing levels.

### 3.4 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.

### 3.5 Graduation

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

## 4 Special circumstances

When in the opinion of the 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.



# Master of Mathematical Sciences (Signal and Information Processing)

## 1 Duration of program

Except with the permission of the Faculty, the Master of Mathematical Sciences (Signal and Information Processing) shall be completed in a minimum of three semesters or a maximum of twelve semesters.

## 2 Admission

- 2.1 The following may be accepted as a candidate for the degree any person who has qualified for an Honours degree of Bachelor of Science in either Mathematics or Physics or a degree of Bachelor of Engineering (Electrical and Electronic) with Honours of the University of Adelaide, or for an equivalent degree of another tertiary institution accepted for the purpose by the University.
- 2.2 Graduates with Honours in other areas of Engineering, or in related scientific areas, may be accepted at the discretion of the Faculty.
- 2.3 Subject to the approval of the Council, the Board of Studies may, in exceptional circumstances and subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the degree a person who does not qualify under 2.1 or 2.2 but who has given evidence satisfactory to the Board of fitness to undertake work for the degree.

### 2.4 Status and credit transfer

A candidate who has passed courses in this or other educational institutions and who has not presented these courses towards any award may, on written application to the Faculty, be granted status for a maximum of 4 units under 4.3.2 of the Academic Program Rules.

## 3 Assessment and examination

### Academic progress

If in the opinion of the Board of Studies a candidate for the degree is not making satisfactory progress, the Board may, with the consent of the Council, terminate the candidature.

## 4 Qualification requirements

- 4.1 To qualify for the degree a candidate shall:
- comply with conditions as prescribed in the Academic Program Rules *and*
  - pass such examinations on the candidate's program of advanced study as may be required by the Board of Studies.

## 4.2 Unacceptable combinations of courses

Except as provided in 4.3.5, no candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty concerned, contains a substantial amount of the same material; and no course or portion of a course may be counted twice towards an award.

## 4.3 Academic program

4.3.1 A candidate for the degree shall regularly attend lectures and tutorials, do such written and practical work as may be prescribed, and satisfactorily complete courses to the value of at least 36 units as defined in 4.3.2.

4.3.2 The program of study to the value of at least 36 units shall consist of:

- Courses to the value of at least 18 units selected from:

ELEC ENG 7059 Radar Principles and Systems - an Introduction .....	3
SIP 7001 Information Theory.....	3
SIP 7002 Kalman Filtering and Tracking.....	3
SIP 7004 Mobile Communications.....	3
SIP 7005 Multisensor Data Fusion.....	3
SIP 7012 Detection, Estimation and Classification .....	3
SIP 7013 Introduction to Discrete Linear Systems.....	3
SIP 7015 Signal Synthesis and Analysis .....	3
SIP 7017 Specialised Studies A .....	3
SIP 7018 Specialised Studies B .....	3
SIP 7019 Specialised Studies C .....	3
SIP 7020 Specialised Studies D .....	3
SIP 7023 Satellite Communications .....	3
SIP 7024 Adaptive Signal Processing .....	3
SIP 7025 Beamforming & Array Processing....	3
SIP 7026 Mathematical Coding & Cryptology ..	3
SIP 7030 Image Sensors and Processing .....	3
SIP 7031 Sonar Sensors and Systems.....	3

Specialised Studies may consist of directed readings or short courses as approved by the Faculty. The content and assessment of these courses will be determined in each case by the academic coordinator of the course in consultation with the student's supervisor and the student.

ii Honours and other relevant courses offered by the University of Adelaide or other tertiary institutions in South Australia as may be approved by the Board of Studies.

iii Supervised project work consisting of the course:

MATHS 7008 A/B Mathematical Signal and Information Processing Project..... 6

Note: Intending students should consult the relevant school early in the year in which they plan to study in order to ascertain whether particular courses will be available in that year, which semester they will be taught and their precise content.

4.3.3 Students who are required to undertake preliminary work will normally enrol in the following course:

SIP 7027 A/B Qualifying Studies in Mathematics ..... 12

On satisfactory completion of this work the student will proceed to study as outlined in 4.3.1 above.

4.3.4 The Faculty may grant status of up to 12 units for studies undertaken within an Honours degree in either Mathematics or Physics, or a degree of Bachelor of Engineering (Electrical and Electronic) with Honours of the University of Adelaide, or within an equivalent degree of another tertiary institution. These candidates will still need to present a minimum of 24 units towards the Master of Mathematical Sciences (Signal and Information Processing) that have not been presented for any other degree.

4.3.5 Candidates who are granted exemption from one or more of the courses listed in 4.3.2 (i) on the basis of previous studies may select in their place other relevant courses offered by the University of Adelaide or other tertiary institutions in South Australia as may be approved by the Board of Studies.

4.3.6 The availability of all courses is conditional on there being adequate staffing and resources.

#### 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 Board of Studies special circumstances exist, the Council, on the recommendation of the Board in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

## 1 Duration of program

Except with the permission of the Faculty, the Master of Petroleum Business Management shall be completed in a minimum of two semesters or a maximum of eight semesters.

## 2 Admission

2.1 Except as provided for in 2.2 below, an applicant for admission to the program shall have qualified for a degree with Honours (in a relevant discipline) of the University or of another institution accepted for this purpose by the Faculty.

2.2 The Faculty may, in exceptional circumstances and subject to such conditions (if any) as it may see fit to impose, accept as a candidate for the degree of Master of Petroleum Business Management, a person who does not qualify under 2.1 above, but has given evidence satisfactory to the Faculty of fitness to undertake work for the degree.

### 2.3 Status or exemption

A candidate may not present for credit towards the degree any course which has been presented as part of the requirements for any other award of this University or other institution, or which in the opinion of the Faculty is substantially similar to such course.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Master of Petroleum Business Management: Pass with High Distinction, Pass with Distinction, Pass with Credit, and Pass.

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

3.3 A candidate who fails in a course and desires to take the course again shall again attend that course and satisfactorily do such written and practical work as the teaching staff concerned may prescribe, unless specifically exempted therefrom after written application to the Faculty for such exemption.

3.4 A candidate who has twice failed any course may not enrol for that course again except by special permission of the Faculty and then only under such conditions as may be prescribed.

3.5 For the purpose of this Rule, a candidate who is refused permission to sit for the assessment for a given course, or who without a reason accepted by the Executive Dean of the Faculty (or nominee) fails to attend all or part of the assessment, shall be deemed to have failed that course.

3.6 The Research Project shall be approved by the Head of the Australian School of Petroleum (or nominee) and be conducted under the supervision of a member of the academic staff of the University of Adelaide.

3.7 The Faculty may permit the Research Project to be undertaken outside the University provided there will be adequate contact and interaction between the candidate and the candidate's supervisor.

3.8 Evaluation of the Research Project shall be through the submission of a comprehensive report and a presentation. This evaluation shall be conducted jointly by the School's academic staff and industry practitioners nominated by the academic staff.

## 4 Qualification requirements

4.1 To qualify for the degree of Master of Petroleum Business Management, a candidate shall satisfactorily complete a minimum of 24 units of which at least 10 units must be taken from the list of Compulsory Courses in 4.2 Group A, either 4 or 8 units must be taken as a Research Project in 4.2 Group B, and the remaining units must be taken from the list of Elective courses in 4.2 Group C. The specific list of courses to be taken by any candidate must be agreed by the Program Coordinator at the time of enrolment and will depend on the candidate's prior experience and learning goals.

### 4.2 Academic program

#### Group A: Compulsory courses

PETROENG 7006 Petroleum Project Economics ..	2
PETROENG 7009 Decision-Making and Risk Analysis .....	2
PETROENG 7043 Integrated Field Development Planning and Economics Project.....	3
PETROENG 7049 Advanced Managerial Decision Making & Risk Analysis .....	3
PETROENG 7052 Oil and Gas Resources and Reserves .....	3
PETROENG 7053 Reservoir and Project Management .....	3

#### Group B: Research project

PETROENG 7014 Project A .....	4
PETROENG 7046 Project B .....	4

#### Group C: Elective courses

PETROENG 7001 Petrophysics .....	2
PETROENG 7002 Reservoir Engineering .....	2
PETROENG 7031 Reservoir Characterisation and Modelling .....	3

PETROENG 7038 Well Testing and Pressure Transient Analysis .....	3
PETROENG 7040 Enhanced Oil Recovery .....	3
PETROENG 7042 Drilling Engineering and Well Completion .....	3
PETROENG 7044 Petroleum Geology & Geophysics .....	2
PETROENG 7050 Production Engineering & Optimisation .....	3
PETROENG 7035 Reservoir Simulation .....	3

The availability of all courses is conditional on the availability of staff and facilities and sufficient enrolments. Each year the Australian School of Petroleum shall determine which courses will be offered and in which semester they will be offered.

#### 4.3 Unacceptable combination of courses

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

#### 4.4 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.



## 1 Duration of program

Except with the permission of the Faculty, the Master of Petroleum Engineering shall be completed in a minimum of two semesters or a maximum of eight semesters.

## 2 Admission

- 2.1 Except as provided for in 2.2 below, an applicant for admission to the program shall:
- have qualified in the University of Adelaide for the degree of Bachelor of Engineering with Honours *or*
  - have qualified for an award accepted by the Faculty of Engineering, Computer and Mathematical Sciences as being equivalent academically and professionally to the degree of Bachelor of Engineering with Honours.
- 2.2 The Faculty may, in exceptional circumstances and subject to such conditions (if any) as it may see fit to impose, accept as a candidate for the degree of Master of Petroleum Engineering, a person who does not qualify under 2.1 above, but has given evidence satisfactory to the Faculty of fitness to undertake work for the degree.
- 2.3 **Status or exemption**
- A candidate may not present for credit towards the degree any course which has been presented as part of the requirements for any other award of this University or other institution, or which in the opinion of the Faculty is substantially similar to such course.

## 3 Assessment and examinations

- 3.1 There shall be four classifications of pass in any course for the Master of Petroleum Engineering: Pass with High Distinction, Pass with Distinction, Pass with Credit, and Pass.
- 3.2 A candidate shall not be eligible to attend for examination unless the prescribed work has been completed to the satisfaction of the teaching staff concerned.
- 3.3 A candidate who fails in a course and desires to take the course again shall again attend the course and satisfactorily do such written and practical work as the teaching staff concerned may prescribe, unless specifically exempted therefrom after written application to the Faculty for such exemption.
- 3.4 A candidate who has twice failed any course may not enrol for that course again except by special permission of the Faculty and then only under such conditions as may be prescribed.

3.5 For the purpose of this Rule, a candidate who is refused permission to sit for the assessment for a given course, or who without a reason accepted by the Executive Dean of the Faculty (or nominee) fails to attend all or part of the assessment, shall be deemed to have failed that course.

3.6 The Research Project shall be approved by the Head of the Australian School of Petroleum (or nominee) and be conducted under the supervision of a member of the academic staff of the University of Adelaide.

3.7 The Faculty may permit the Research Project to be undertaken outside the University provided there will be adequate contact and interaction between the candidate and the candidate's supervisor.

## 4 Qualification requirements

4.1 To qualify for the degree of Master of Petroleum Engineering, a candidate shall satisfactorily complete a minimum of 24 units of which a minimum of 16 units must be taken from the list of Core Courses in 4.2 Group A. The remaining 8 units may be taken from either Group A or Group B. The specific list of courses to be taken by any candidate must be agreed by the Program Coordinator at the time of enrolment and will depend on the candidate's prior experience and learning goals.

### 4.2 Academic program

#### Group A: Core courses

PETROENG 7001 Petrophysics .....	2
PETROENG 7002 Reservoir Engineering .....	2
PETROENG 7006 Petroleum Project Economics ..	2
PETROENG 7031 Reservoir Characterisation & Modelling .....	3
PETROENG 7042 Drilling, Engineering and Well Completion .....	3
PETROENG 7043 Integrated Field Development Planning and Economics Project.....	3
PETROENG 7044 Petroleum Geology & Geophysics .....	2
PETROENG 7050 Production Engineering & Optimisation .....	3
PETROENG 7053 Reservoir and Project Management .....	3

#### Group B: Elective courses

PETROENG 7009 Decision-Making and Risk Analysis.....	3
PETROENG 7014 Project A .....	4
PETROENG 7035 Reservoir Simulation.....	3

PETROENG 7038 Well Testing and Pressure Transient Analysis .....	3
PETROENG 7040 Enhanced Oil Recovery .....	3
PETROENG 7046 Project B .....	4
PETROENG 7049 Advanced Managerial Decision Making & Risk Analysis .....	3
PETROENG 7052 Oil and Gas Resources and Reserves .....	3

#### **4.3 Unacceptable combination of courses**

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

#### **4.4 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.

## 1 Duration of program

Except with the permission of the Faculty, the Master of Project Management shall be completed in a minimum of two semesters or a maximum of eight semesters.

## 2 Admission

2.1 An applicant for admission to the program for the Master of Project Management shall:

- a have qualified for a four-year degree of the University or a degree of another institution accepted by the Faculty for the purpose as equivalent to a four-year degree of the University *or*
- b have qualified for a three-year degree of the University or a degree of another institution accepted by the Faculty for the purpose as equivalent to a three-year degree of the University and have three years' professional work experience.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the Master of Project Management a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the Masters.

### 2.3 Status, exemption and credit transfer

Candidates who have previously passed courses in postgraduate awards or equivalent at the University of Adelaide or another university and who wish to count such courses towards the Master of Project Management may, on written application to the Faculty, be granted such status as the Faculty shall determine, to a maximum aggregate value of twelve (12) units.

### 2.4 Articulation with other awards

A candidate who has been admitted to the Graduate Certificate in Project Management and who subsequently satisfies the requirements for the Master of Project Management must surrender the Graduate Certificate before being admitted to the Master degree.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Master degree: Pass with High Distinction; Pass with Distinction; Pass with Credit; and Pass.

3.2 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.

3.3 A candidate who fails a course and wishes to repeat that course, shall, unless exempted partially there from by the Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

3.4 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

3.5 For the purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

## 4 Qualification requirements

4.1 To qualify for the Master of Project Management, a candidate shall satisfactorily complete courses to the value of 24 units of which at least 18 units are from the list of core courses.

Note: students should discuss their choice of courses with the Program Coordinator.

### 4.1.1 Core courses

TECHCOMM 5004 Managing Risk.....	3
TECHCOMM 5014 Project Management Technique.....	3
TECHCOMM 5015 Project and Innovation Finance and Accounting.....	3
TECHCOMM 5021 Applied Project Management 1 .....	3
<i>either</i>	
TECHCOMM 5026 Applied Project Management 2 .....	3
<i>or</i>	
TECHCOMM 5013 Systems Engineering 1* .....	3
TECHCOMM 7012 Business and Contract Legal Studies .....	3

### 4.1.2 Elective courses

Geology 7002 Mineral Exploration for Project Managers.....	3
TECHCOMM 5002 Managing Product Design and Development .....	3
TECHCOMM 5008 Leading and Managing.....	3
TECHCOMM 5010 Technology Project Management .....	3
TECHCOMM 5012 Integrated Logistic Support....	3
TECHCOMM 5016 Entrepreneurship and Innovation* .....	3
TECHCOMM 5018 Opportunity Assessment* .....	3
TECHCOMM 5022 A/B Project Management Project (9 units) <sup>+</sup> .....	9

TECHCOMM 5023 A/B Project Management Project (6 units).....	6
TECHCOMM 5024 Project Management Project (3 units) .....	3
TECHCOMM 5026 Applied Project Management 2 <sup>#</sup> .....	3
TECHCOMM 5027 Business and Project Creation* .....	3
TECHCOMM 5013 Systems Engineering <sup>#</sup> .....	3
TECHCOMM 7011 Project Management for Professional Services.....	3
TECHCOMM 7020 Technology Project Management 2 .....	3
TECHCOMM 7022 Creativity and Innovation.....	3
TECHCOMM 7023 Carbon Impact & Strategy .....	3
TECHCOMM 7024 Complex Project Management 1 .....	3
TECHCOMM 7025 Introduction to Climate Change.....	3
TECHCOMM 7029 Systems Engineering 2 .....	3
TECHCOMM 7030 Logistics and Supply Chain Management .....	3
TECHCOMM 7031 Introduction to Mineral Processing .....	3
TECHCOMM 7033 Ongoing Carbon Management .....	3
TECHCOMM 7034 Mine Management and Safety.....	3

\* Candidates cannot undertake Opportunity Assessment or Entrepreneurship and Innovation in conjunction with Business and Project Creation.

<sup>+</sup> Available only to approved students.

<sup>#</sup> Available if not already taken as Core.

#### 4.2 Unacceptable combination of courses

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

#### 4.3 Graduation

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

### 5 Special circumstances

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



# Master of Science and Technology Commercialisation

## 1 Duration of program

Except with the permission of the Faculty, the Master of Science and Technology Commercialisation shall be completed in a minimum of two semesters or a maximum of eight semesters.

## 2 Admission

- 2.1 An applicant for admission to the program for the Master of Science and Technology Commercialisation shall have qualified for a degree of the University or another institution accepted by the University for the purpose as equivalent, shall have had at least 5 years approved professional work experience..
- 2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the degree a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the degree.

## 2.3 Status, exemption and credit transfer

Candidates who have previously passed courses in postgraduate awards or equivalent at the University of Adelaide or another university and who wish to count such courses towards the Master of Science and Technology Commercialisation may, on written application to the Faculty, be granted such status as the Faculty shall determine, to a maximum aggregate value of twelve (12) units. Courses completed more than ten years prior to application to Faculty will not be considered.

## 2.4 Articulation with other awards

- 2.4.1 A candidate for the Master of Science and Technology Commercialisation who does not complete the requirements for the Masters degree but satisfies the requirements for the Graduate Certificate or Graduate Diploma in Science and Technology Commercialisation may be admitted to one or other of those degrees as appropriate.
- 2.4.2 A candidate who has been admitted to the Graduate Certificate or the Graduate Diploma in Science and Technology Commercialisation and who subsequently satisfies the requirements for the Master of Science and Technology Commercialisation must surrender the Graduate Certificate or the Graduate Diploma before being admitted to the Masters degree

## 3 Assessment and examinations

- 3.1 There shall be four classifications of pass in any course for the Masters degree: Pass with High Distinction; Pass with Distinction; Pass with Credit; and Pass.
- 3.2 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.
- 3.3 A candidate who fails a course and wishes to repeat that course, shall, unless exempted partially therefrom by the Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.
- 3.4 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.
- 3.5 For the purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the Master of Science and Technology Commercialisation, a candidate shall satisfactorily complete courses to the value of 36 units consisting of:

- a 24 units of coursework of which at least 18 units are core courses *and*
- b a 12 unit Project as set out under 4.1.2 below.

Note: students should discuss their choice of courses with the Program Coordinator.

### 4.1.1 Core courses

TECHCOMM 5001 Marketing Technological Innovation .....	3
TECHCOMM 5002 Managing Product Design and Development .....	3
TECHCOMM 5003 Strategic Analysis for Technology Commercialisation .....	3
TECHCOMM 5005 Financing Commercialisation .....	3
TECHCOMM 5006 Technology Management and Transfer .....	3
TECHCOMM 5007 Legal Issues of the Commercialisation Process .....	3
TECHCOMM 5008 Leading and Managing.....	3
TECHCOMM 5011 Internationalisation of Technology .....	3

#### **4.1.2 Masters project**

TECHCOMM 7006 A/B Masters Project ..... 12

#### **4.1.3 Elective courses**

Any postgraduate course taught by the Entrepreneurship, Commercialisation and Innovation Centre (ECIC) except for:

TECHCOMM 5025 Commercialisation:  
Process and Strategy ..... 3

TECHCOMM 5027 Business & Project Creation ... 3

#### **4.2 Unacceptable combination of courses**

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

#### **4.3 Graduation**

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

### **5 Special circumstances**

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



# Master of Science and Technology Commercialisation (Advanced)

## 1 Duration of program

Except with the permission of the Faculty, the Master of Science and Technology Commercialisation shall be completed in a minimum of four semesters or a maximum of ten semesters.

## 2 Admission

2.1 Except as provided for in 2.2 below, a candidate for admission to the program of study for the Master of Science and Technology Commercialisation (Advanced) shall have qualified for a degree of the University or another institution accepted by the University for the purpose as equivalent, shall have had at least 5 years approved professional work experience.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the degree a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the degree.

### 2.3 Status, exemption and credit transfer

Candidates who have previously passed courses in postgraduate awards or equivalent at the University of Adelaide or another university and who wish to count such courses towards the Master of Science and Technology Commercialisation may, on written application to the Faculty, be granted such status as the Faculty shall determine, to a maximum aggregate value of twelve (12) units. Courses completed more than five years prior to application to Faculty will not be considered.

### 2.4 Articulation with other awards

2.4.1 A candidate for the Master of Science and Technology Commercialisation (Advanced) who does not complete the requirements for this degree but satisfies the requirements for the Graduate Certificate, Graduate Diploma or Master in Science and Technology Commercialisation may be admitted to one or other of those degrees as appropriate.

2.4.2 A candidate who has been admitted to the Graduate Certificate or the Graduate Diploma or the Master in Science and Technology Commercialisation and who subsequently satisfies the requirements for the Master of Science and Technology Commercialisation (Advanced) must surrender the Graduate Certificate or the Graduate Diploma, or the Masters before being admitted to the Master (Advanced) degree.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Masters degree: Pass with High Distinction; Pass with Distinction; Pass with Credit; and Pass.

3.2 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.

3.3 A candidate who fails a course and wishes to repeat that course, shall, unless exempted partially therefrom by the Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

3.4 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

3.5 For the purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the Master of Science and Technology Commercialisation (Advanced), a candidate shall satisfactorily complete courses to the value of 48 units consisting of:

- a 36 units of coursework of which at least 18 units are core courses *and*
- b a 12 unit Project as set out under 4.1.2 below.

Note: students should discuss their choice of courses with the Program Coordinator.

#### 4.1.1 Core courses

TECHCOMM 5001 Marketing Technological Innovation .....	3
TECHCOMM 5002 Managing Product Design and Development .....	3
TECHCOMM 5003 Strategic Analysis for Technology Commercialisation .....	3
TECHCOMM 5005 Financing Commercialisation .....	3
TECHCOMM 5006 Technology Management and Transfer .....	3
TECHCOMM 5007 Legal Issues of the Commercialisation Process .....	3
TECHCOMM 5008 Leading and Managing .....	3
TECHCOMM 5011 Internationalisation of Technology .....	3

#### **4.1.2 Masters project**

TECHCOMM 7006 A/B Masters Project ..... 12

#### **4.1.3 Elective courses**

Any postgraduate course taught by the Entrepreneurship, Commercialisation and Innovation Centre (ECIC) except for:

TECHCOMM 5025 Commercialisation:  
Process and Strategy ..... 3

TECHCOMM 5027 Business & Project Creation ... 3

#### **4.2 Unacceptable combination of courses**

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

#### **4.3 Graduation**

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

### **5 Special circumstances**

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



## **Graduate Attributes**

### Postgraduate programs in Science & Technology Commercialisation

Specifically the program aim to develop and provide students opportunity to demonstrate the following:

- Internationally recognised and advanced levels of knowledge and understanding of the process and techniques involved in transforming science and technology into marketable products and services
- An ability to locate, analyse, evaluate and synthesise information from a wide variety of sources in a planned and timely manner to facilitate the assessment and transformation of science and technology into into marketable products and services
- An ability to apply effective, creative and innovative solutions, both independently and cooperatively, to current and future science and technology commercialisation issues, problems and public concern
- Skills of a high order in interpersonal understanding, teamwork and communication in facilitating and implementing science and technology commercialisation
- A commitment to continuous learning and the capacity to maintain intellectual curiosity throughout life that emerges science and technology commercialisation opportunities
- A commitment to the highest standards of professional endeavour and the ability to take a leadership role in science and technology commercialisation.
- An awareness of ethical, social and cultural issues encountered in engaging with science and technology commercialisation within the global context and the importance of exercising professional skills and responsibilities in dealing with associated social and cultural issues.



# Master of Science in Mathematical and Computer Sciences

## 1 General

This document must be read in conjunction with:

- a the General Academic Program Rules for Master by Research Programs (see under Adelaide Graduate Centre, p.18) *and*
- b the Research Student Handbook, published by the Adelaide Graduate Centre.

These documents explain procedures to be followed and contain guidelines on supervision and research for the degree of Doctor of Philosophy and the various Masters Degrees by Research, offered by the University.

All students must comply with both the General Academic Rules and the rules following below, and procedures outlined in the Research Student Handbook.

In addition to the General Academic Program Rules for Masters by Research degrees, in this publication, the following discipline specific rules apply.

## 2 Admission

- 2.1 Further to Rules 4.1 and 4.2 of the General Program Rules, persons holding the following awards may become candidates for the degree of Master of Science in Mathematical and Computer Sciences:

- a
  - i Bachelors of Arts
  - ii Bachelors of Science
- b Persons who have obtained an Honours degree from a University in a suitable Mathematics or Computer Science discipline, or a qualification deemed by the Research Education and Development Committee to be equivalent.

### 2.2 Academic program

To qualify for the degree, a candidate shall satisfactorily complete a program of study consisting of one of the following approved options:

- a a candidate shall submit a thesis upon an approved course and shall adduce sufficient evidence that the thesis is his/her own work. The thesis shall give the results of original research or of an investigation on which the candidate has been engaged. A candidate may also submit other contributions to mathematical sciences in support of his/her candidature
- b a candidate shall pursue a program of advanced study comprising one-third coursework\* and two-thirds research and shall submit a thesis describing the results of this research. The thesis while subject to the same

conditions as those applying under option (a) would normally be of a less substantial character.

\*This represents courses to the value of 15 units over the duration of the program.

### 2.3 Courses of study

Courses listed in the Academic Program Rules of Masters degrees in Mathematical Sciences and deemed suitable for the degree by the Committee.

Notwithstanding the above, the availability of all courses is conditional on the availability of staff and facilities and sufficient enrolments.

### 2.4 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 Committee, contains a substantial amount of the same material: and no course or portion of a course may be counted twice towards an award.



## 1 General

1.1 This document must be read in conjunction with:

- a the General Academic Program Rules for Master by Research Programs (see under Adelaide Graduate Centre, p.18) *and*
- b the Research Student Handbook, published by the Adelaide Graduate Centre.

These documents explain procedures to be followed and contain guidelines on supervision and research for the degree of Doctor of Philosophy and the various Masters Degrees by Research, offered by the University.

All students must comply with both the General Academic Rules and the rules following below, and procedures outlined in the Research Student Handbook.

In addition to the General Academic Program Rules for Masters by Research degrees, in this publication, the following discipline specific rules apply.

## 2 Assessment and examinations

There shall be four classifications of pass in any course for the degree: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

## 3 Qualification requirements

3.1 Every candidate for the degree shall complete the following components:

- a coursework, comprising the following compulsory courses:
  - PETROL 7000 Petroleum Geology and Geophysics (B)..... 6
  - PETROL 7001 Petroleum Geology and Geophysics (A)..... 6

b thesis on an approved research project.

3.2 The Research Education and Development Committee may exempt candidates from the specific coursework if they have qualified for the Honours degree of Bachelor of Science (Petroleum Geology and Geophysics) of the University or an alternative Honours program containing equivalent coursework.

3.3 At the discretion of the Head, Australian School of Petroleum, a candidate may be required to undertake a six to twelve week placement with the industry sponsor of their project, where such a placement will facilitate progress of the research project.



# Master of Science (Petroleum Geoscience)

## 1 Duration of Program

To qualify for the degree a candidate shall satisfactorily complete a program of study comprising 2 semesters of full-time study.

## 2 Admission

- 2.1 Admission to candidature by the Faculty may be granted to:
- a persons qualified for an Honours degree (Second Class Division A or higher) from the University of Adelaide in a relevant field of study
  - b persons qualified for an Honours degree from another university or tertiary institution equivalent to an Honours degree (Second Class Division A or higher) from the University of Adelaide in a relevant field of study
  - c others having qualified for a Bachelor's degree of the University (with credit average marks) in an approved field of study or an equivalent award in an institution accepted for the purpose by the Faculty and have relevant professional experience.
- 2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the degree a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of their fitness to undertake work for the degree.

## 3 Assessment and examination

- 3.1 There shall be four classifications of pass in any course for the degree and the research project: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.
- Students failing to maintain satisfactory academic performance in the coursework may be subject to a review of academic progress and possible termination of candidature.
- 3.2 A candidate for the Master of Petroleum Geoscience, who does not complete the requirements for the Masters degree, but satisfies the requirements for the Graduate Certificate in Petroleum Geology and Geophysics, may be admitted to that award if appropriate.

## 4 Qualification requirements

To qualify for the degree, a candidate shall obtain an average grade equivalent to Second Class Division A or higher in courses to the value of 24 units, as follows:

## 4.1 Academic Program

Every candidate for the degree shall satisfactorily complete the following compulsory units with the value of 12 units

- a PETROL 7000 Petroleum Geology and Geophysics ..... 6
- PETROL 7001 Petroleum Geology & Geophysics ..... 6
- and*
- b an approved research project:  
PETROL 7002 Research Project (M.Sc. Pet. Geoscience)..... 12

## 4.2 Unacceptable combinations of courses

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

## 4.3 Graduation

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

## 5 Special Circumstances

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

## 1 Duration

Except with the permission of the Faculty, the Master of Sciences (Defence) shall be completed in a minimum of three semesters or a maximum of twelve semesters.

## 2 Admission requirements

- 2.1 Except as provided for in 2.2 below, an applicant for admission to the program shall have:
- qualified for a degree from the University of Adelaide (or an award deemed equivalent by the Board of Studies) in a discipline related to the proposed field of study *and*
  - had at least 18 months' employment experience in a defence-related industry.
- 2.2 The Board of Studies may, in exceptional circumstances and subject to such conditions (if any) as it may see fit to impose, accept as a candidate for the degree of Master of Sciences (Defence), a person who does not qualify under 2.1 above, but has given evidence satisfactory to the Board of fitness to undertake work for the degree.

### 2.3 Status or exemption

A candidate may not present for credit towards the degree any course which has been presented as part of the requirements for any other award of this University or other institution, or which in the opinion of the Faculty is substantially similar to such course.

### 2.4 Articulation with other awards

- 2.4.1 A candidate who has been enrolled for the Graduate Certificate or Graduate Diploma in Sciences (Defence) at the University of Adelaide and who has not been awarded the Graduate Certificate or Graduate Diploma shall, on written application, be permitted to transfer all equivalent courses towards the Masters degree.
- 2.4.2 A candidate who holds the Graduate Certificate or Graduate Diploma in Sciences (Defence) from the University of Adelaide shall surrender the Graduate Certificate or Graduate Diploma before being awarded the Masters degree.

## 3 Assessment and examinations

- 3.1 There shall be four classifications of pass in any course for the Master of Sciences (Defence): Pass with High Distinction, Pass with Distinction, Pass with Credit, and Pass. Courses passed with a conceded pass classification may not be counted towards the requirements for the degree of Master of Sciences (Defence).
- 3.2 A candidate shall not be eligible to attend for examination unless any prescribed coursework

has been completed to the satisfaction of the teaching staff concerned.

- 3.3 A candidate who fails in a course and desires to take the course again shall again attend the course and satisfactorily do such written and practical work as the teaching staff concerned may prescribe, unless specifically exempted there from after written application to the Board of Studies for such exemption.
- 3.4 A candidate who has twice failed any course may not enrol for that course again except by special permission of the Board of Studies and then only under such conditions as may be prescribed.
- 3.5 For the purpose of this Rule, a candidate who is refused permission to sit for the assessment for a given course, or who without a reason accepted by the Convenor of the Board of Studies (or nominee) fails to attend all or part of the assessment, shall be deemed to have failed that course.

## 4 Qualification requirements

- 4.1 To qualify for the degree of Master of Sciences (Defence), a candidate shall satisfactorily complete courses from the following list to a total value of at least 36 units. These must include the two core courses from Group A to the value of 6 units and the Research Project (12 units).
- 4.2 Candidates may present courses offered by other universities from a register of approved courses maintained by the Board of Studies, but the total value of these external courses must not exceed 12 units (including the core courses in Group A). Candidates must have their proposed program of studies approved by the Convenor of the Board of Studies or nominee at enrolment.

### Group A: Core courses

Both of these courses are offered by the University of South Australia:

Research Methods in a Multidisciplinary Environment.....	3
Systems Engineering for Complex Problem Solving.....	3

### Group B: Defence technology stream

DEFSCI 7005 Principles of Control Systems.....	3
DEFSCI 7006 Antennas and Propagation.....	3
DEFSCI 7007 Principles of RF Engineering.....	3
DEFSCI 7029 Kalman Filtering and Tracking .....	3
DEFSCI 7035 Detection, Estimation and Classification.....	3
DEFSCI 7203 Photonics IV-D .....	3
DEFSCI 7204 Photonics III-D .....	3

DEFSCI 7206 Physical Optics III-D .....	3
DEFSCI 7207 Sonar Sensors and Systems.....	3

Note: special conditions apply to choosing courses with a Photonics theme. There is a preferred sequence within these courses, and candidates should seek guidance on their enrolment pattern. Electromagnetics III contains material which is assumed knowledge in the remaining courses, and should be taken by candidates without this specialist undergraduate Physics background. Further Photonics options may become available.

**Group C : Information and communication technology stream**

DEFSCI 7000 Cognitive Science: Minds, Brains and Computers .....	3
DEFSCI 7001 Decision Making in Real Environments.....	3
DEFSCI 7002 Distributed Systems .....	3
DEFSCI 7003 Artificial Intelligence.....	3
DEFSCI 7009 Modelling Telecommunication Traffic .....	3
DEFSCI 7019 Statistics in Engineering .....	3
DEFSCI 7020 Systems Modelling & Simulation ....	3
DEFSCI 7022 Multimedia Communications .....	3
DEFSCI 7023 Photonics for Communications .....	3
DEFSCI 7028 Information Theory.....	3
DEFSCI 7035 Detection, Estimation and Classification.....	3
DEFSCI 7042 Computer Networks and Applications .....	3
DEFSCI 7043 Communication Networks Design..	3
DEFSCI 7044 Adaptive Business Intelligence.....	3
DEFSCI 7060 Computer Vision.....	3
DEFSCI 7061 Evolutionary Computation.....	3
DEFSCI 7063 Transform Methods & Signal Processing .....	3
DEFSCI 7210 Human Factors and Ergonomics ...	3

**Research Project**

DEFSCI 7016 Master of Sciences (Defence) Research Project.....	12
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*or*

DEFSCI 7016 A/B Master of Sciences (Defence) Research Project.....	12
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The availability of all elective courses is conditional on the availability of staff and facilities and sufficient enrolments.

Other relevant courses may be presented towards the requirements of the Master of Sciences (Defence) with the written approval of the Convenor of the Board of Studies.

**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 Committee, 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 Board of Studies special circumstances exist, the Council, on the recommendation of the Board in each case, may vary any of the provisions of the Academic Program Rules for any particular award.



# Master of Sciences (Defence Signal Information Processing)

## 1 Duration of program

Except with the permission of the Faculty, the Master of Sciences (Defence Signal Information Processing) shall be completed in a minimum of three semesters or a maximum of twelve semesters.

## 2 Admission

2.1 The following may be accepted as a candidate for the degree:

Any person who has qualified for an Honours award in Mathematics, Physics or in Electrical and Electronic Engineering; or a Bachelor award that includes a major in either Mathematics or Physics, or for an equivalent degree accepted for the purpose by the University, plus 18 months experience in the Defence industry.

2.2 The Board of Studies may, in exceptional circumstances and subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the degree a person who does not qualify under 2.1 but who has given evidence satisfactory to the Board of fitness to undertake work for the degree.

## 2.3 Articulation with other awards

2.3.1 A candidate who has been enrolled for the Graduate Certificate or Graduate Diploma in Signal Information Processing at the University of Adelaide and who has not been awarded the Graduate Certificate or Graduate Diploma shall, on written application, be permitted to transfer all equivalent courses towards the Masters degree.

2.3.2 A candidate who holds the Graduate Certificate or Graduate Diploma in Signal Information Processing from the University of Adelaide shall surrender the Graduate Certificate or Graduate Diploma before being awarded the Masters degree.

## 2.4 Credit transfer

2.4.1 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.

2.4.2 Candidates may present courses offered by other universities from a register of approved courses maintained by the Board of Studies but the total value of these external courses must not exceed 12 units (including the core courses).

## 3 Assessment and examination

### Academic progress

If in the opinion of the Board of Studies a candidate for the degree is not making satisfactory progress, the Board may terminate the candidature.

## 4 Qualification requirements

4.1 To qualify for the degree a candidate shall satisfactorily complete a total of at least 36 units as defined in 4.3.1.

### 4.2 Project work

Subject to such conditions as it may determine, the Board of Studies may permit project work to be undertaken outside the University provided that it can be satisfied:

- a that this will result in mutual academic benefit to the candidate and the supervising school or organisation
- b that there will be adequate contact and interaction between the candidate and the supervising school or organisation.

### 4.3 Academic program

4.3.1 The program of study and project work to the value of at least 36 units shall consist of:

- i **Compulsory courses**
  - Research Methods in a Multidisciplinary Environment\*.....3
  - Systems Engineering for Complex Problem Solving\* .....3
  - \* Offered at UniSA.
- ii Courses to the value of at least 12 units selected from:
  - DEFSCI 7011 Adaptive Signal Processing .....3
  - DEFSCI 7012 Multisensor Data Fusion.....3
  - DEFSCI 7028 Information Theory.....3
  - DEFSCI 7029 Kalman Filtering and Tracking...3
  - DEFSCI 7035 Detection, Estimation and Classification .....3
  - DEFSCI 7036 Introduction to Discrete Linear Systems .....3
  - DEFSCI 7041 Image Sensors & Processing ..... 3
- iii Courses to the value of at least 6 units selected from either:

- a courses listed in 4.3.1 (ii) *or*
  - b from the following courses:
    - DEFSCI 7015 Mathematical Coding & Cryptology ..... 3
    - DEFSCI 7030 Error Control Coding ..... 3
    - DEFSCI 7031 Mobile Communications ..... 3
    - DEFSCI 7037 Signal Synthesis and Analysis\* ..... 3
    - DEFSCI 7038 Specialised Studies D<sup>+</sup> ..... 3
    - DEFSCI 7039 Satellite Communications..... 3
    - DEFSCI 7060 Computer Vision ..... 3
    - DEFSCI 7063 Transform Methods and Signal Processing\* ..... 3
- \*Students can not under take both DEFSCI 7063 Transform Methods and Signal Processing and DEFSCI 7037 Signal Synthesis and Analysis.
- <sup>+</sup>Specialised Studies may consist of directed readings or short courses as approved by the Board of Studies. The content and assessment of these courses will be determined in each case by the academic coordinator of the course in consultation with the student's supervisor and the student.
- c other relevant courses as approved by the Board of Studies from other postgraduate programs of the University.

**iv supervised project work**

- DEFSCI 7016 Master of Sciences (Defence) Research Project..... 12
- or*
- DEFSCI 7016 A/B Master of Sciences (Defence) Research Project ..... 12

4.3.2 Students who are required to undertake preliminary work will normally enrol in one of the following courses:

- SIP 7027 A/B Qualifying Studies in Mathematics Part 1 & 2..... 12
- SIP 7028 Qualifying Studies in Mathematics..... 12

On satisfactory completion of this work the student will proceed to study as outlined in 6.3.1 above.

4.3.3 Candidates who are granted exemption from one or more of the courses listed in 6.3.1 (ii) and (iii) on the basis of previous studies may select in their place other relevant courses offered by the University of Adelaide or other tertiary institutions in South Australia as may be approved by the Board of Studies.

4.3.4 The availability of all courses is conditional on there being adequate staffing and resources.

**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 Board of Studies special circumstances exist, the Board in each case, may vary any of the provisions of the Academic Program Rules for any particular award.



## 1 Duration of program

Except with the permission of the Faculty, the Master of Software Engineering shall be completed in a minimum of four semesters or a maximum of sixteen semesters.

## 2 Admission

2.1 The Faculty may accept as a candidate for the degree any person who has completed one of the following at the University of Adelaide:

- Graduate Diploma in Computer Science
- A bachelor degree that includes a major in Computer Science
- Bachelor of Engineering (Computer Systems Engineering)
- Bachelor of Engineering (Software Engineering)
- Bachelor of Engineering (Telecommunications Engineering).

2.2 The Faculty may accept as a candidate for the degree any person who has completed studies at another institution where those studies are accepted by the University as equivalent to studies specified in 2.1 above.

2.3 The Faculty may, in exceptional circumstances and subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the degree a person who does not qualify under 2.1, but who has given evidence satisfactory to the Faculty of fitness to undertake work for the degree.

## 3 Assessment and examinations

### 3.1 Academic progress

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

## 4 Qualification requirements

4.1 To qualify for the degree a candidate shall present 48 units of study *and*

- a satisfy examiners in courses of study as prescribed in the Academic Program Rules
- b comply with conditions as prescribed in the Academic Program Rules *and*
- c present a satisfactory written report and public presentations on a supervised project on a course approved by the School of Computer Science.

## 4.2 Academic program

Note: intending students should consult the School of Computer Science early in the year in which they plan to study in order to ascertain whether particular courses will be available in that year, in which semester they will be taught and their precise content and if they are presentable to their program.

4.2.1 A candidate for the degree shall complete satisfactorily a total of at least 48 units.

4.2.2 A candidate for the degree shall regularly attend lectures and tutorials, do such written and practical work as may be prescribed, and pass examinations in at least 33 units of non-project courses offered by the School of Computer Science at the Honours or Masters level. Other courses may be included, subject to the approval of the Head of the School.

a The courses presented must include:

COMP SCI 7007 Specialised Programming ....	3
COMP SCI 7015 Software Engineering & Project.....	3
COMP SCI 7023 Software Process Improvement .....	3
COMP SCI 7054 High Integrity Software Engineering.....	3
COMP SCI 7096A/B Master of Software Engineering Project A/B .....	15

The requirements of this clause may be waived by the Head of School on a case-by-case basis.

b Courses listed in clause 4.1.1 of the Academic Program Rules for the Graduate Diploma in Computer Science may not be presented.

c A maximum of 12 units of courses listed in clause 4.1.2 of the Academic Program Rules for the Graduate Diploma in Computer Science may be presented for the degree.

4.2.3 The Faculty may grant status of up to the value of 24 units for relevant studies undertaken within an Honours or Masters degree at the University of Adelaide, or within an equivalent degree of another tertiary institution. These candidates will still need to present a minimum of 24 units towards the Master of Software Engineering that have not been presented for any other degree.

## 4.3 Unacceptable combinations of courses

Subject to 4.2.3 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.

#### 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.

## 1 Duration of program

Except with the permission of the Faculty, the Master of Water Resource Management shall be completed in a minimum of three semesters or a maximum of twelve semesters.

## 2 Admission

2.1 Except as provided for in 2.2 below, an applicant for admission to the program shall have qualified for:

- a a Bachelor degree from the University of Adelaide in an Engineering or Science discipline related to the proposed field of study, or a degree of another institution accepted by the Faculty of Engineering, Computer and Mathematical Sciences as being equivalent *or*
- b a four-year degree of the University or a degree of another institution accepted by the Faculty for the purpose as equivalent to a four-year degree of the University and have professional work experience to an appropriate level as assessed at the discretion of the Program Director.

2.2 The Faculty may, in exceptional circumstances and subject to such conditions (if any) as it may see fit to impose, accept as a candidate for the degree of Master of Water Resources Management, a person who does not qualify in 2.1 above, but has given evidence satisfactory to the Faculty of fitness to undertake work for the degree.

### 2.3 Articulation with other awards

2.3.1 A candidate who has been enrolled for the Graduate Certificate or Graduate Diploma in Water Resources Management at the University of Adelaide and who has not been awarded the Graduate Certificate or Graduate Diploma shall, on written application, be permitted to transfer all equivalent courses towards the Masters degree.

2.3.2 A candidate who holds the Graduate Certificate or Graduate Diploma in Water Resources Management from the University of Adelaide shall surrender the Graduate Certificate or Graduate Diploma before being awarded the Masters degree.

### 2.4 Status or exemption

Candidates who have previously passed courses in other postgraduate awards at the University of Adelaide or another university and who wish to count such courses towards the degree may, on written application to the Faculty, be granted such status as the Faculty shall determine, to a maximum aggregate value of six (6) units. No

such status will be granted for courses in 4.3 (a). However, candidates may, on written application to the Faculty, be granted permission to substitute courses listed in 4.3 (a) with elective courses to a maximum aggregate value of six (6) units.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Master of Water Resources Management: Pass with High Distinction, Pass with Distinction, Pass with Credit, and Pass. Courses passed with a Conceded Pass classification may not be counted towards the requirements for the degree of Master of Water Resources Management.

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

3.3 A candidate who fails in a course and desires to take the course again shall again attend the course and satisfactorily do such written and practical work as the teaching staff concerned may prescribe, unless specifically exempted therefrom after written application to the Faculty for such exemption.

3.4 A candidate who has twice failed any course may not enrol for that course again except by special permission of the Faculty and then only under such conditions as may be prescribed.

3.5 For the purpose of this Rule, a candidate who is refused permission to sit for the assessment for a given course, or who without a reason accepted by the Executive Dean of the Faculty (or nominee) fails to attend all or part of the assessment, shall be deemed to have failed that course.

## 4 Qualification requirements

4.1 To qualify for the degree of Master of Water Resources Management, a candidate shall satisfactorily complete studies to a total value of at least 36 units comprising:

- a 12 units of core courses in 4.3 (a) *and*
- b 24 units taken from 4.3 (b), (c) and (d).

4.2 At least 18 units of study must be undertaken from courses offered by the University of Adelaide.

Candidates must have their program of studies approved by the Postgraduate Coordinator or nominee at enrolment.

## 4.3 Academic program

### a Core courses

A candidate shall undertake and complete satisfactorily each of the following:

WRM 7000 Global Water Systems I (Natural Water Cycle).....	3
WRM 7002 Global Water Systems II (Engineered Water Cycle).....	3
WRM 7003 Water Resources and Society.....	3
WRM 7004 Water Resources Planning & Management .....	3

### b Electives

A candidate shall undertake and complete satisfactorily four of the following courses (12 units), at least three courses (9 units) must be taken from one of the streams:

#### Management of Water Infrastructure

##### University of Adelaide

WRM 7011 Environmental Modelling, Management and Design.....	3
WRM 7012 Water Resources Optimisation and Modelling.....	3
WRM 7013 Water Distribution Systems & Design.....	3
WRM 7014 Coastal Engineering and Design.....	3
WRM 7021 GIS for Environmental Management .....	3
WRM 7022 Analysis of Rivers and Sediment Transport.....	3
WRM 7023 Water Resources Sustainability and Design.....	3

##### University of South Australia

BUIL 5017 Facilities and Asset Performance	
BUIL 5018 Facilities Program Management	
BUIL 5019 Asset Management Service Delivery	
BUIL 5020 Sustainability in Assets and facilities	
BUIL 5022 Engineering Infrastructure Management	
BUSS 5256 Strategic Asset Management	
GEOE 5001 Introduction to Geographic Information Systems	

##### Deakin University

SEV710 Risk and Environmental Sustainability	
SEV714 Coastal Engineering Management	
SEN724 Water Resources Systems Analysis	
SEN743 Water Resources Engineering	
SEN744 Environmental Systems	

##### Central Queensland University

ENMM20010 Introduction to Maintenance Engineering	
ENMM20011 Establishing the Maintenance	

##### Strategy

ENMM20012 Maintenance Organisation	
ENMM20013 Maintenance Systems and Documentation	
ENMM20015 Auditing Maintenance Systems	
Water Quality and Treatment	
<b>University of Adelaide</b>	
WRM 7010 Wastewater Engineering and Design.....	3
WRM 7011 Environmental Modelling, Management and Design.....	3
WRM 7013 Water Distribution Systems and Design.....	3

##### University of South Australia

CHEM 5007 Water Quality Fundamentals and Processes N	
CIVE 5048 Advanced Water Quality and Wastewater Management	
CIVE 5065 Design of Flood and Drainage Systems	
CIVE 5066 Water Quality Modelling	
CIVE 5067 Water Quality Management	

##### Deakin University

SEN711 Environmental Systems Design	
SEN740 Water Treatment Processes	
SEN741 Wastewater Treatment Processes	
SEN745 Water Reclamation and Reuse	

##### Ecosystem Catchment Management

##### University of Adelaide

WRM 7021 GIS for Environmental Management ..	3
WRM 7024 Freshwater Ecology.....	3
WRM 7025 Ecosystems Modelling for Environmental Management .....	3
WRM 7026 Integrated Catchment Management ..	3

##### Deakin University

SEV710 Risk and Environmental Sustainability	
SQE718 Integrated Catchment Management: Concepts, Principles and Planning	
SQE719 Integrated Catchment Management: Practical Tools for Assessment and Implementation	
SQE720 Aquatic Ecosystems Management and Rehabilitation	

##### Central Queensland University

EVST20003 Environmental Risk Management	
EVST20012 Water Management 1	

The following streams are not offered at the University of Adelaide

- Groundwater Hydrology/Hydrogeology
- Irrigation
- Water Planning

**Unstreamed Electives**

- WRM 7015 Epidemiology of Infectious Diseases ..... 3
- WRM 7017 Biostatistics ..... 3
- WRM 7018 Epidemiological Research Methods..... 3
- WRM 7020 Industrial Toxicology..... 3
- WRM 7027 Environmental Economics EIII ..... 3

**c Other courses**

With permission from the Faculty, the following course may be presented in lieu of an elective course :

- WRM 7007 Research Methodology\* ..... 3
- WRM 7009 Specialised Studies I ..... 3

\* This course is a prerequisite for WRM 7008 Research Project and WRM 7006 Major Industry Project listed in (d) below

Other relevant courses may be presented towards the requirements of the degree with the approval of the Faculty.

**d Additional course**

In addition to (a) and (b), 12 units of study must be taken from the one of the following options:

**Study Option 1**

Four additional courses (12 units) chosen from (b) and/or (c)

**Study Option 2**

Two additional courses (6 units) chosen from (b) and/or (c) plus

- WRM 7005 Minor Industry Project..... 6

**Study Option 3**

- WRM 7008 Research Project ..... 12

**Study Option 4**

- WRM 7006 Major Industry Project..... 12

**4.4 Unacceptable combination of courses**

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

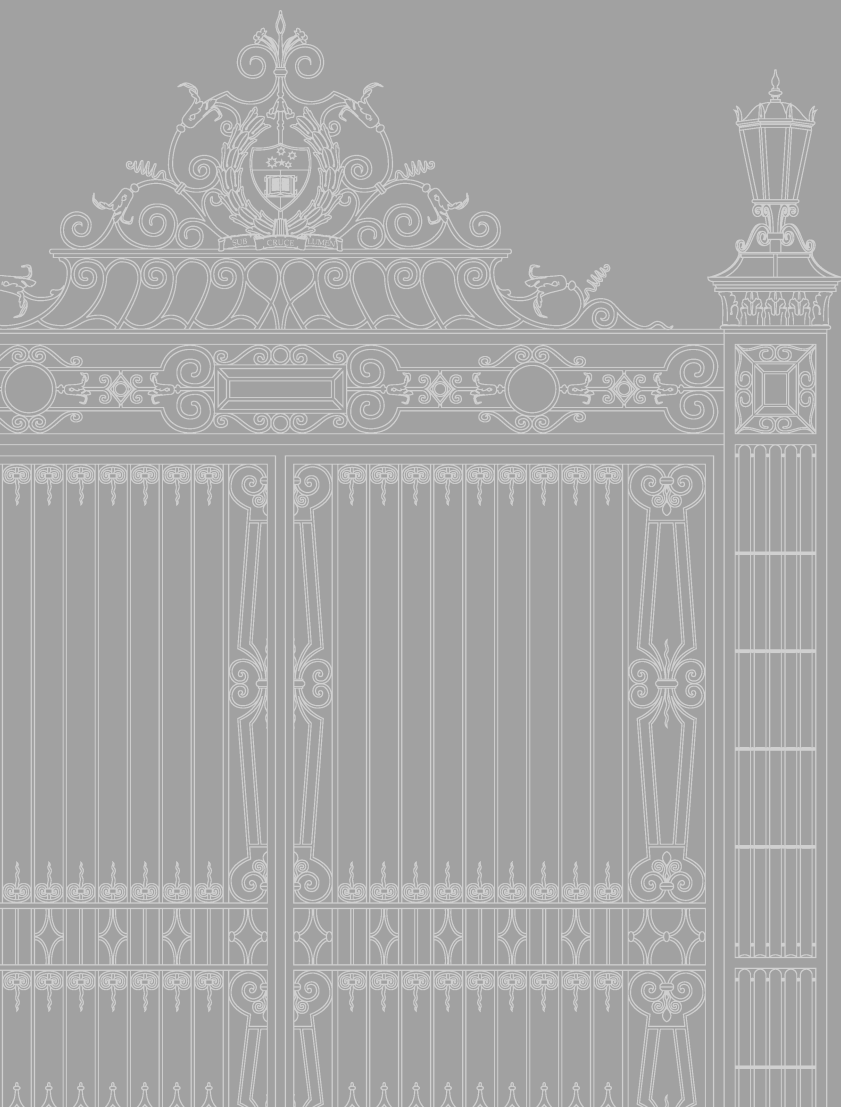
**4.5 Graduation**

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 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 Health Sciences

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## Postgraduate Awards

- Graduate Certificate in Alcohol and Drug Studies
- Graduate Certificate in Biostatistics
- Graduate Certificate in Dentistry
- Graduate Certificate in Grief and Palliative Care Counselling
- Graduate Certificate in Human Anatomy
- Graduate Certificate in Nursing Science
- Graduate Certificate in Occupational Health and Safety Management
- Graduate Certificate in Public Health
- Graduate Diploma in Addiction and Mental Health
- Graduate Diploma in Alcohol and Drug Studies
- Graduate Diploma in Biostatistics
- Graduate Diploma in Clinical Dentistry
- Graduate Diploma in Forensic Odontology
- Graduate Diploma in General Practice Palliative Care
- Graduate Diploma in Grief and Palliative Care Counselling
- Graduate Diploma in Nursing Science
- Graduate Diploma in Occupational Health and Safety Management
- Graduate Diploma in Public Health
- Graduate Diploma in Surgical Nursing
- Master of Biostatistics
- Master of Clinical Science
- Master of Grief and Palliative Care Counselling
- Master of Health Economics and Policy
- Master of Medical Science
- Master of Minimally Invasive Surgery
- Master of Nurse Practitioner
- Master of Nursing Science
- Master of Occupational Health and Safety
- Master of Ophthalmology

- Master of Psychology (Clinical)
- Master of Psychology (Clinical)/Doctor of Philosophy
- Master of Psychology (Health)
- Master of Psychology (Organisational and Human Factors)
- Master of Public Health
- Master of Science in Addiction Studies
- Master of Science in Dentistry
- Master of Surgery
- Doctor of Clinical Dentistry
- Doctor of Medicine
- Doctor of Nursing

**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 Certificate in Alcohol and Drug Studies

**Note: This program is only offered in the external mode.**

## 1 Duration of Program

To qualify for the Graduate Certificate, a candidate shall satisfactorily complete a course of study comprising two semesters of part-time study completed over one year.

## 2 Admission

2.1 An applicant for admission to the program for the Graduate Certificate in Alcohol and Drug Studies shall have qualified for a degree of the University or another institution accepted by the University for the purpose as equivalent and shall have demonstrated to the satisfaction of the University that they have the capacity and experience to benefit from the program.

2.2 The Faculty may, subject to any conditions as it may see fit to impose in each case, accept as a candidate for the Graduate Certificate a person who does not satisfy the requirements of rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the Graduate Certificate.

### 2.3 Status, exemption and credit transfer

Except with special permission of the Faculty, no candidate will be granted status for any course in the Graduate Certificate.

### 2.4 Articulation with other awards

A candidate who has been admitted to the Graduate Certificate in Alcohol and Drug Studies and who subsequently satisfies the requirements for the Graduate Diploma in Alcohol and Drug Studies must surrender the Graduate Certificate before being admitted to the Graduate Diploma.

## 3 Enrolment

This program is offered by distance education. Each student will enrol through the University of Adelaide.

The program commences in February each year and is offered over two consecutive semesters so that it can be completed within a 12 month period.

## 4 Assessment and examinations

4.1 There shall be four classifications of pass in any course for the Graduate Certificate: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

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

b A candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

4.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 5 Qualifications requirements

### 5.1 Academic Program

To qualify for the degree, a candidate shall satisfactorily complete core courses to the value of 12 units, as follows:

PHARM 7011 Drugs and Drug Problems.....6

PHARM 7012 Responses to Drug Problems .....6

### 5.2 Unacceptable combinations of courses

No candidate will be permitted to count for the Graduate Certificate any course that, in the opinion of the Faculty contains substantially the same material as any other course that he or she has already presented for another award.

### 5.3 Graduation

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

## 6 Special circumstances

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



# Graduate Certificate in Biostatistics

## 1 Duration of program

To qualify for the Graduate Certificate, a candidate shall satisfactorily complete one semester of full-time study or the equivalent of part-time study.

## 2 Admission

- 2.1 An applicant for admission to the academic program for the Graduate Certificate in Biostatistics shall have qualified for a degree in a relevant field of the University or a degree in a relevant field of another institution accepted by the Faculty for the purpose as equivalent to a degree of the University.
- 2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the Graduate Certificate a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the Graduate Certificate.
- ### 2.3 Status, exemption and credit transfer
- 2.3.1 Except with special permission of the Head of the Discipline of Public Health, no candidate will be granted status for the core course in the Graduate Certificate.
- 2.3.2 No candidate shall be granted status for any elective course.
- 2.3.3 All courses offered within the Master of Biostatistics are developed by the Biostatistics Collaboration of Australia (BCA). Consequently, a candidate at the University of Adelaide will be granted credit and status for the compulsory course "Epidemiology (EPI)" if the candidate has completed this course while previously enrolled at another BCA partner university.
- 2.3.4 An exemption does not count as a credit towards the Certificate in Biostatistics. If an exemption for a course is granted, an alternative course must be completed, and co/prerequisites adhered to.
- 2.3.5 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially therefrom by the Head of Discipline, again complete the required work in the course to the satisfaction of the teaching staff concerned.
- ### 2.4 Articulation with other awards
- 2.4.1 Students who complete this academic program are eligible to apply for entry to the Graduate Diploma in Biostatistics, and be granted status for the work they have undertaken in the Graduate Certificate.

- 2.4.2 Students who have conferred upon them the award of Graduate Certificate in Biostatistics who subsequently satisfy the requirements of the Graduate Diploma must surrender their Graduate Certificate before being admitted to the Graduate Diploma.
- 2.4.3 A candidate for the Master of Biostatistics or the Graduate Diploma in Biostatistics who does not complete the requirements for the Graduate Diploma but satisfies the requirements for the Graduate Certificate may be admitted to the Graduate Certificate.

## 3 Assessment and examinations

- 3.1 There shall be four classifications of pass in any course for the Graduate Certificate: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.
- 3.2
- A candidate shall not be eligible to sit for examination unless the prescribed work has been completed to the satisfaction of the teaching staff concerned.
  - For the purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.
- 3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the Graduate Certificate, a candidate shall satisfactorily complete courses to the value of 12 units, as follows:

#### 4.1.1 Core courses

All candidates shall complete the following course, worth 3 units:

BIOSTATS 6000 Epidemiology ..... 3

For the Graduate Certificate, only Epidemiology is compulsory, allowing maximum flexibility (within the constraints of other course-specific prerequisites).

#### 4.1.2 Elective courses

All candidates shall complete elective courses to the value of 9 units selected from the following, each worth 3 units:

BIOSTATS 6001 Mathematical Background for Biostatistics.....	3
BIOSTATS 6002 Data Management and Statistical Computing .....	3
BIOSTATS 6003 Probability and Distribution Theory .....	3
BIOSTATS 6004 Design of Randomised Controlled Trials .....	3
BIOSTATS 6005 Principles of Statistical Inference.....	3
BIOSTATS 6006 Linear Models .....	3
BIOSTATS 6007 Categorical Data and Generalised Linear Models .....	3
BIOSTATS 6008 Survival Analysis.....	3
BIOSTATS 6011 Bioinformatics .....	3
BIOSTATS 6012 Longitudinal and Correlated Data .....	3
BIOSTATS 6013 Advanced Clinical Trials.....	3
BIOSTATS 6014 Bayesian Statistical Methods.....	3
BIOSTATS 6015 Health Indicators and Health Surveys.....	3
BIOSTATS 6016 Clinical Biostatistics .....	3

Note: Workplace Project Portfolio (WPP) may not be undertaken in this award.

- 4.2 Candidates who wish to enrol in a course for which they do not have the necessary preliminary knowledge or approved qualifications may be required to undertake such bridging studies prior to the commencement of the course as may be deemed appropriate by the Head of the Discipline of Public Health.

#### 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 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 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 Certificate in Dentistry

## 1 Duration of program

- 1.1 To qualify for the Graduate Certificate a candidate shall:
  - a complete satisfactorily an approved program of study extending over a period of not more than three years as a part-time candidate *and*
  - b pass such written, oral, clinical and practical examinations as may be required by the School of Dentistry.
- 1.2 The program of study, examination and such other work as may be required and the period of study for each candidate shall be specified by the Dean and approved by the School of Dentistry.
- 1.3 Unless the School of Dentistry, on the advice of the Dean, approves an extension of time in a particular case, the work for the Graduate Certificate shall be completed within the period of study approved for the particular candidate under Academic Program Rule 1.1.

## 2 Admission

- 2.1 The School of Dentistry may accept as a candidate for the Graduate Certificate any person who:
  - a has qualified in the University of Adelaide for the degree of Bachelor of Dental Surgery
  - b has qualified in another university for a degree or degrees in the field of dentistry which the School of Dentistry regards as equivalent for the purpose to the qualification specified in Academic Program Rule 3.1(a) hereof
  - c subject to the approval of the Dean, the School of Dentistry may accept as a candidate an applicant who does not satisfy the requirements of Academic Program Rule 2.1 (b) above but who has given evidence satisfactory to the School of Dentistry of fitness to undertake advanced work in dentistry.

### 2.2 Articulation with other awards

Students who complete the Graduate Certificate are eligible to apply for entry to the Graduate Diploma in Clinical Dentistry program and if successful on gaining entry, are eligible to apply for status for studies they have undertaken in the Graduate Certificate, to a maximum value of 6 units.

### 2.3 Prescribed communicable infections policy

The University promotes a pro-active public health approach to prescribed communicable infections (PCI) such as HIV/AIDS, Hepatitis B and Hepatitis C, and seeks to minimise the impact of these infections on students' academic progress.

It offers understanding and practical support to students with such infections, and aims to provide a work and study environment free from discrimination, challenging views that result in discriminatory attitudes toward people with PCIs.

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

All prospective Faculty of Health Sciences 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](http://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 present for examination unless the required program of study has been completed to the satisfaction of the Dean.
- 3.2 The School of Dentistry shall appoint examiners for written, oral, clinical and other assessments.
- 3.3 There shall be one grading classification in any course for the Graduate Certificate: Non Graded Pass.

### 3.4 Academic progress

A candidate's progress may be reviewed at any time by the Dean. If, in the opinion of the School of Dentistry a candidate is not making satisfactory progress the School of Dentistry may, with the consent of Council, terminate the candidature.

## 4 Qualification requirements

### 4.1 Academic Program

All students shall satisfactorily complete the compulsory course:

DENT 6001HO Contemporary Dental Practice\*.... 6

Students shall complete elective courses to the value of six units taken from the following (subject to availability):

DENT 6001 Contemporary Dental Practice  
Part A ..... 3

DENT 6021HO Adhesive Dentistry C .....	2
DENT 6022HO Advanced Restorative Dentistry C .....	2
DENT 6023HO Endodontics C .....	2
DENT 6024HO High Caries Risk C .....	2
DENT 6025HO Implantology C .....	2
DENT 6026HO Orofacial Pain C .....	2
DENT 6027HO Oral Pathology C .....	2
DENT 6028HO Dento-Alveolar Surgery C .....	2
DENT 6029HO Orthodontics C .....	2
DENT 6030HO Periodontics C .....	2
DENT 6031HO Removable Prosthodontics (full) C .....	2
DENT 6032HO Removable Prosthodontics (partial) C .....	2
DENT 6033HO Special Needs Dentistry C .....	2
DENT 6034HO Dental Wear C .....	2
DENT 6036HO Aesthetic Dentistry C .....	2
DENT 6037HO Panoramic Radiography C .....	2
DENT 6038HO Extra-Oral Radiography C .....	2
DENT 6039HO Dental Trauma C .....	2
DENT 6040HO Dental Laboratory Technology C ..	2
DENT 6061HO Maxillo-Facial Prosthetics .....	2
DENT 6063HO Pain Management C .....	2
DENT 6064HO Oral Medicine C .....	2
DENT 6065 Paedodontics C .....	2
DENT 6071 Contemporary Dental Practice Part B .....	3

Other courses as they become available

\* available in external mode only

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

### 4.3 Graduation

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

## 5 Special circumstances

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



# Graduate Certificate in Grief and Palliative Care Counselling

## 1 Duration of program

To qualify for the Graduate Certificate, a candidate shall satisfactorily complete two semesters of part-time study.

## 2 Admission

2.1 An applicant for admission to the academic program for the Graduate Certificate in Grief and Palliative Care Counselling shall have qualified for a degree of the University or a degree of another institution accepted by the Faculty of Health Sciences for the purpose as equivalent to a degree of the University.

2.2 The Faculty of Health Sciences may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the Graduate Certificate a person who does not satisfy the requirements of rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the Graduate Certificate.

## 2.3 Status, exemption and credit transfer

2.3.1 Except with special permission of the Head of the Discipline of General Practice, no candidate will be granted status for the core or elective courses of the Graduate Certificate, except for those candidates who have completed antecedent courses in Grief and Palliative Care Counselling presented by the Discipline of General Practice, the University of Adelaide.

2.3.2 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially therefrom by the Head of Discipline concerned, again complete the required work in the course to the satisfaction of the teaching staff concerned.

## 2.4 Articulation with other awards

2.4.1 Students who complete this academic program are eligible to apply for entry to the Graduate Diploma in Grief and Palliative Care Counselling and be granted status for the work they have undertaken in their Graduate Certificate.

2.4.2 Students who have conferred upon them the award of Graduate Certificate in Grief and Palliative Care Counselling who subsequently satisfy the requirements of the Graduate Diploma must surrender their Graduate Certificate before being admitted to the Graduate Diploma.

2.4.3 A candidate for the Master of Grief and Palliative Care Counselling or the Graduate Diploma in Grief and Palliative Care Counselling who does not complete the requirements for the Graduate

Diploma but satisfies the requirements for the Graduate Certificate may be admitted to the Graduate Certificate.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Graduate Certificate: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 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 purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the Graduate Certificate, a candidate shall satisfactorily complete courses to the value of 12 units, as follows:

#### 4.1.1 Core courses

GEN PRAC 7101HO Nature of Grief.....	2
GEN PRAC 7104HO Supervised Field Education..	2
GEN PRAC 7105HO Grief Counselling I.....	2
GEN PRAC 7106HO Grief Counselling II.....	2
GEN PRAC 7107HO Grief Counselling III.....	2

#### 4.1.2 Elective courses

All candidates shall complete an elective course to the value of 2 units selected from the following elective courses:

GEN PRAC 7102HO Loss and Grief.....	2
GEN PRAC 7103HO Issues in Death & Dying.....	2

4.2 Candidates who wish to enrol in a course for which they do not have the necessary preliminary knowledge or approved qualifications, may be required to under-take such bridging studies prior to the commencement of the course as may be deemed appropriate by the Head of the Discipline of General Practice.



#### **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 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 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 Certificate in Human Anatomy

## 1 Duration of program

To qualify for the Graduate Certificate, a candidate shall satisfactorily complete one year of part-time study.

## 2 Admission

2.1 An applicant for admission to the program of study for the Graduate Certificate in Human Anatomy shall have qualified for a degree of the University or a degree of another institution accepted by the Faculty for the purpose as equivalent to a degree of the University.

2.2 The Faculty may, subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the Graduate Certificate a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the Graduate Certificate.

## 2.3 Status, exemption and credit transfer

2.3.1 A candidate normally would not be granted status for any course which he or she has completed for another award.

2.3.2 A candidate who fails a course and desires to repeat that course shall, unless exempted partially therefrom by the Head of Discipline concerned, again complete the required work in the course to the satisfaction of the teaching staff concerned.

## 3 Assessment and examination

3.1 There shall be four classifications of pass in any course for the Graduate Certificate: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

- 3.2
- 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 purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the Graduate Certificate, a candidate shall satisfactorily complete the following course:  
ANAT SC 5000 A/B Human Anatomy  
Graduate Certificate..... 12

### 4.2 Unacceptable combinations of courses

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

### 4.3 Graduation

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

## 5 Special circumstances

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

## 1 General

The Graduate Certificate in Nursing Science offers the following specialisations:

- 1.1 Apheresis Nursing
- 1.2 Evidence Based Practice
- 1.3 Hyperbaric Nursing
- 1.4 Infection Control
- 1.5 Retrieval Nursing

## 2 Duration of program

To qualify for the Graduate Certificate an applicant shall satisfactorily complete a program of study comprising one semester of full time study or not more than one year of part-time study.

## 3 Admission

- 3.1 An applicant for admission to the program of study for the Graduate Certificate 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 *or*
  - c have at least two years experience as a registered nurse in the field of the specialisation to be undertaken
  - d satisfactorily complete an appropriate medical examination on Occupation Health and Safety grounds for the specialisation in Hyperbaric Nursing and Retrieval Nursing.
- 3.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the Graduate Certificate a person who does not satisfy the requirements of Rule 3.1 above, but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the program.
- ### 3.3 Status, exemption and credit transfer
- 3.3.1 No candidate shall be granted status for courses with a total value of more than 6 units on account of courses presented for any other award.
- 3.3.2 A candidate who fails a course and desires to repeat that course shall, unless exempted partially therefrom by the Executive Dean of Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.
- ### 3.4 Articulation with other awards
- Students who have conferred upon them the award of Graduate Certificate in Nursing Science who subsequently satisfy the requirements of the

Graduate Diploma must surrender their Graduate Certificate before being admitted to the Graduate Diploma.

## 4 Assessment and examinations

- 4.1 There shall be four classifications of pass in any course for the Graduate Certificate: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.
- 4.2 A candidate who does not complete the specified work to the satisfaction of the teaching staff concerned shall be awarded a failing grade of Incomplete-Fail.
- 4.3 A candidate who fails a course twice may be subject to a Review of Academic progress.

## 5 Qualification requirements

### 5.1 Academic program

To qualify for the Graduate Certificate a candidate shall successfully complete a specialisation set of courses, listed below, to the value of 12 units:

#### Apheresis Nursing

NURSING 5101HO Apheresis Nursing I.....	6
NURSING 5102HO Apheresis Nursing II.....	6

#### Evidence Based Practice

NURSING 5109HO An introduction to Evidence Based Health Care.....	6
NURSING 5110HO Change Management and Evaluation .....	6
Hyperbaric Nursing	
NURSING 5103HO Hyperbaric Nursing II .....	6
NURSING 6116HO Hyperbaric Nursing I .....	6

#### Infection Control

NURSING 5104HO Microbiology and Epidemiology .....	6
NURSING 6117HO Infection Control Nursing.....	6

#### Retrieval Nursing

NURSING 5105HO Principles and Practices of Retrieval Nursing.....	6
NURSING 5106HO Trauma Nursing .....	6

### 5.2 Additional specialisation

If a candidate who qualifies for the Graduate Certificate subsequently undertakes another specialisation, the candidate will receive a new *testamur* listing the specialisation completed.

### 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 concerned, contains a substantial amount of the same material; and no course or portion of a course may be counted twice towards an award.

#### **5.4 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**

### Graduate Certificate In Nursing Science

Graduates of the Graduate Certificate in Nursing Science will be distinguished by the following attributes:

- A rigorous academic knowledge of the sciences that inform nursing practice in the specialty.
- The clinical and technological skills required, to provide high quality effective nursing care in the chosen specialty.
- The ability to work as team leaders and managers and to undertake the role of case management and care coordination in the chosen specialty.
- The ability to apply critical thinking skills to problem solving in advanced specialty practice.
- The ability to evaluate nursing care according to professional standards of practice within the chosen specialty.
- Highly developed communication skills and sound interpersonal skills to work effectively in a leadership role within the multidisciplinary team.
- The attitudes and skills to practice person-centred nursing in a culturally sensitive and ethically sound manner in the chosen specialty.
- Being committed to and have the skills to continue life long learning to advance nursing practice in their specialty.
- Possessing skills and knowledge to practice as a specialist nurse in a technologically dynamic environment.
- The ability to effectively integrate skills and knowledge in order to facilitate quality, nursing care, in their specialty.
- Having the skills, knowledge and attitudes to manage and implement care for the patient with complex health needs.
- Being prepared to promote safe practice in accordance with legislation, professional codes, and specialty competencies and guidelines.



# Graduate Certificate in Occupational Health and Safety Management

The Graduate Certificate is a part of joint postgraduate program studies in Occupational Health and Safety Management of the University of Adelaide and University of South Australia.

Note: the program is offered only on a part-time basis.

## 1 Duration of program

To qualify for the Graduate Certificate, a candidate shall satisfactorily complete a program of part-time study extending over at least two semesters, and except with the special permission of the Faculty, complete the program in not more than four semesters of part-time study.

## 2 Admission

2.1 An applicant for admission to the program of study for the Graduate Certificate in Occupational Health & Safety Management shall have qualified for a degree of the University or a degree of another institution accepted by the Faculty for the purpose as equivalent to a degree of the University, together with a minimum of two years' appropriate work experience.

2.2 The Faculty may, subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the Graduate Certificate a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the Graduate Certificate.

## 2.3 Status, exemption and credit transfer

2.3.1 A candidate normally would not be granted status for any course which he or she has completed for another award.

2.3.2 A candidate who fails a course and desires to repeat that course shall, unless exempted partially therefrom by the Head of Discipline concerned, again complete the required work in the course to the satisfaction of the teaching staff concerned.

2.3.3 Consideration will be given to granting status to students who have partially completed equivalent programs interstate, up to a maximum of two courses. Appropriate status (up to the year 2000) will be granted to students who have partly completed the former Graduate Diplomas at the University of South Australia and the University of Adelaide.

2.3.4 In exceptional cases, status will be granted for one course to students who have undertaken relevant study at a TAFE institution.

## 2.4 Articulation with other awards

2.4.1 A candidate for the Graduate Diploma in Occupational Health and Safety Management who satisfies the requirements for the Graduate Certificate but who does not complete the requirements for the Graduate Diploma, may be admitted to the Graduate Certificate.

2.4.2 Candidates wishing to progress to the Graduate Diploma in Occupational Health and Safety Management must have satisfactorily completed the four compulsory courses with a grade of at least Pass Division 1.

## 3 Assessment and examination

3.1 There shall be four classifications of pass in any course for the Graduate Certificate: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass. Further, a pass will be recorded in two divisions with a Pass Division I being higher than a Pass Division II.

To complete this award, at least a Pass Division II is required in each course.

- 3.2 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 purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the Graduate Certificate, a candidate shall satisfactorily complete the following courses.

OH&S 7031HO Occupational Hygiene and Ergonomics*	3
OH&S 7105HO Diseases of Occupation*	3
OH&S 7131HO Occupational Safety & Statistics **	3
OH&S 7132HO OHS Law & Risk Management **	3

\* Offered by the University of Adelaide

\*\* Offered by the University of South Australia

#### **4.2 Unacceptable combinations of courses**

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

#### **4.3 Graduation**

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

### **5 Special circumstances**

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



# Graduate Certificate in Public Health

## 1 Duration of program

To qualify for the Graduate Certificate, a candidate shall satisfactorily complete one semester of full-time study or the equivalent of part-time study.

## 2 Admission

2.1 An applicant for admission to the academic program for the Graduate Certificate in Public Health shall have qualified for a degree of the University or a degree of another institution accepted by the Faculty for the purpose as equivalent to a degree of the University.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the Graduate Certificate a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the Graduate Certificate.

### 2.3 Status, exemption and credit transfer

2.3.1 Except with special permission of the Head of the Discipline of Public Health, no candidate will be granted status for any course in the Graduate Certificate.

2.3.2 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially therefrom by the Head of Department, again complete the required work in the course to the satisfaction of the teaching staff concerned.

### 2.4 Articulation with other awards

2.4.1 Students who complete this academic program are eligible to apply for entry to the Graduate Diploma in Public Health, and be granted status for the work they have undertaken in the Graduate Certificate.

2.4.2 Students who have conferred upon them the award of Graduate Certificate in Public Health who subsequently satisfy the requirements of the Graduate Diploma must surrender their Graduate Certificate before being admitted to the Graduate Diploma.

2.4.3 A candidate for the Master of Public Health or the Graduate Diploma in Public Health who does not complete the requirements for the Graduate Diploma but satisfies the requirements for the Graduate Certificate may be admitted to the Graduate Certificate.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Graduate Certificate: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 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 purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the Graduate Certificate, a candidate shall satisfactorily complete courses to the value of 12 units, as follows:

#### 4.1.1 Core courses

All candidates shall complete at least 6 units from the following core courses:

PUB HLTH 7073 Indigenous Health .....	3
PUB HLTH 7074 Introduction to Biostatistics.....	3
PUB HLTH 7075 Introduction to Epidemiology.....	3
PUB HLTH 7076 Health Policy and Public Health Interventions .....	3
PUB HLTH 7078 Social Science Research Methods for Public Health.....	3
PUB HLTH 7081 Health Economics .....	3

#### 4.1.2 Elective courses

All candidates shall complete elective courses to the value of 6 units selected from the following:

DENT 7150HO Dental Public Health .....	3
PUB HLTH 7031HO Occupational Hygiene and Ergonomics.....	3
PUB HLTH 7082 Advanced Health Economic Evaluation and Decision Making .....	3
PUB HLTH 7104HO Biostatistics.....	3
PUB HLTH 7105HO Diseases of Occupation.....	3
PUB HLTH 7106HO Epidemiological Research Methods.....	3
PUB HLTH 7107HO Epidemiology of Infectious Diseases.....	3
PUB HLTH 7108HO Public Health Ethics .....	3
PUB HLTH 7111HO Industrial Toxicology .....	3
PUB HLTH 7113HO Introduction to Environmental and Occupational Health.....	3
PUB HLTH 7115HO Public Health Law .....	3



PUB HLTH 7118HO Public Health Studies.....	3
PUB HLTH 7147HO Health Technology Assessment .....	3

or other courses offered by this University which the Faculty approves for presentation in lieu of elective courses listed above to the value of 3 units.

4.2 Candidates who wish to enrol in a course for which they do not have the necessary preliminary knowledge or approved qualifications may be required to undertake such bridging studies prior to the commencement of the course as may be deemed appropriate by the Head of the Discipline of Public Health.

#### 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 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 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 Diploma in Addiction and Mental Health

## 1 Duration of program

To qualify for the Graduate Diploma, a candidate shall satisfactorily complete a course of study comprising four semesters of part-time study completed over two years or two semesters of full-time study over one year.

## 2 Admission

2.1 An applicant for admission to the program for the Graduate Diploma in Addiction and Mental Health shall have qualified for a degree of the University or another institution accepted by the University for the purpose as equivalent and shall have demonstrated to the satisfaction of the University that they have the capacity and experience to benefit from the program.

2.2 The Faculty may, subject to any conditions as it may see fit to impose in each case, accept as a candidate for the Graduate Diploma a person who does not satisfy the requirements of rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the Graduate Diploma.

### 2.3 Status, exemption and credit transfer

2.3.1. No candidate shall be granted status for courses with a total value of more than 6 units on account of courses presented for any other award, except for those candidates who have completed the Graduate Certificate in Alcohol and Drug Studies (see Rule 2.4 below).

### 2.4 Articulation with other awards

2.4.1 A candidate for the Graduate Diploma in Addiction and Mental Health who does not complete the requirements for the Graduate Diploma but satisfies the requirements for the Graduate Certificate in Alcohol and Drug Studies may be admitted to the Graduate Certificate.

2.4.2 A candidate who has been admitted to the Graduate Certificate in Alcohol and Drug Studies and who subsequently satisfies the requirements for the Graduate Diploma in Addiction and Mental Health must surrender the Graduate Certificate before being awarded the Graduate Diploma.

## 3 Assessment and examinations

3.1 There shall be four classes of pass in each course for the Graduate Diploma: pass with High Distinction, pass with Distinction, pass with Credit and Pass.

3.2 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 A candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the degree, a candidate shall satisfactorily complete core courses to the value of 24 units, as follows:

PHARM 7011 Drugs and Drug Problems..... 6

PHARM 7012 Responses to Drug Problems ..... 6

Nursing/Pharm Mental Health..... 6

Nursing/Pharm Coexisting Addiction and Mental Health Disorders..... 6

### 4.2 Unacceptable combination of courses

No candidate will be permitted to count towards an award any course that, in the opinion of the Faculty concerned, contains a substantial amount of the same material as any other course that he or she has already presented for another award.

### 4.3 Graduation

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

## 5 Special circumstances

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

## Graduate Attributes

### Graduate Diploma In Addiction and Mental Health

Graduates of the Graduate Diploma in Addiction and Mental Health will be distinguished by the following attributes:

- A rigorous academic knowledge of the sciences that inform addiction and mental health practice
- The clinical and technological skills required to provide high quality effective addiction and mental health practice
- The ability to work as team leaders and managers and to undertake the role of case management and care coordination in addiction and mental health practice
- The ability to apply critical thinking skills to problem solving in advanced addiction and mental health practice
- The ability to evaluate care according to professional standards of practice within addiction and mental health care
- Highly developed communication skills and sound interpersonal skills to work effectively in a leadership role within the multidisciplinary team
- The attitudes and skills to practice person-centred nursing in a culturally sensitive and ethically sound manner in addiction and mental health care
- Being committed to and having the skills to continue life long learning to advance addiction and mental health practice
- Possessing skills and knowledge to practice as an addiction and mental health practitioner in a technologically dynamic environment
- The ability to effectively integrate skills and knowledge in order to facilitate quality addiction and mental health practice
- Having the skills, knowledge and attitudes to manage and implement care for the patient with complex health needs
- Being prepared to promote safe practice in accordance with legislation, professional codes, and specialty competencies and guidelines
- The ability to critically analyse in order to evaluate the evidence and make decisions to implement specialist addiction and mental health care based on the best available evidence
- Having a sound understanding of the dynamics of the health care system and the sociological, cultural and political influences that influence addiction and mental health care professional practice.

The highly developed communication skills and sound interpersonal skills to work effectively in a leadership role within the multidisciplinary team is an important graduate attribute. It is currently an important part of the Graduate Diploma in Nursing Science (Mental Health Nursing). This program is also studied by flexible learning. Students learn about these skills in their tutorials and individual study. The development of these skills is assessed using a videotaped counselling session. The model is successful in the Graduate Diploma in Nursing Science (Mental Health Nursing) and its use is proposed in the new program. We expect that students will be enrolling in the program to extend their clinical expertise and skills in working with people with mental health and addiction problems. The program is designed to develop these expertise and skills.

Students will critically evaluate both the body of knowledge and latest research in Addiction and Mental Health. They will learn strategies to engage and work with people with Mental Health and Addiction problems. It is envisioned that they will extend their clinical practice and improve their skill in this manner. Examples of extended clinical expertise and skills include:

- Strategies for working with clients with drug and alcohol issues.
- Strategies for working with clients with mental health issues.
- Strategies for working with clients with suicidal ideation.
- How to conduct a counselling session with a client with both mental health and drug and alcohol issues.



# Graduate Diploma in Alcohol and Drug Studies

## 1 Duration of program

To qualify for the Graduate Diploma, a candidate shall satisfactorily complete a course of study comprising four semesters of part-time study completed over two years.

## 2 Admission

2.1 An applicant for admission to the program for the Graduate Diploma in Alcohol and Drug Studies shall have qualified for a degree of the University or another institution accepted by the University for the purpose as equivalent and shall have demonstrated to the satisfaction of the University that they have the capacity and experience to benefit from the program.

2.2 The Faculty may, subject to any conditions as it may see fit to impose in each case, accept as a candidate for the Graduate Diploma a person who does not satisfy the requirements of rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the Graduate Diploma.

### 2.3 Status, exemption and credit transfer

With special permission of the Faculty, status may be granted for up to one course, on written application from the candidate.

## 3 Assessment and examinations

3.1 There shall be four classes of pass in each course for the Graduate Diploma: pass with High Distinction, pass with Distinction, pass with Credit and Pass.

- 3.2
- 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 A candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the degree, a candidate shall satisfactorily complete core courses to the value of 24 units, as follows:

PHARM 7011 Drugs and Drug Problems.....	6
PHARM 7012 Responses to Drug Problems .....	6

PHARM 7013 Issues in Drug Policy & Management .....	6
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PHARM 7014 Contemporary Research in Alcohol and Other Drugs.....	6
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### 4.2 Unacceptable combination of courses

No candidate will be permitted to count towards an award any course that, in the opinion of the Faculty concerned, contains a substantial amount of the same material as any other course that he or she has already presented for another award.

### 4.3 Graduation

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

## 5 Special circumstances

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

## 1 Duration of program

To qualify for the Graduate Diploma, a candidate shall satisfactorily complete one year of full-time study or the equivalent of part-time study.

## 2 Admission

- 2.1 An applicant for admission to the program of study for the Graduate Diploma in Biostatistics shall have qualified for a degree in a relevant field of the University or a degree in a relevant field of another institution accepted by the Faculty for the purpose as equivalent to a degree of the University.
- 2.2 The Faculty may, subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the Graduate Diploma a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the Graduate Diploma.
- ### 2.3 Status, exemption and credit transfer
- 2.3.1 Except with the special permission of the Head of the Discipline of Public Health, no candidate will be granted status for any of the core courses of the Graduate Diploma.
- 2.3.2 No candidate shall be granted status for courses with a total value of more than 6 units.
- 2.3.3 All courses offered within the Graduate Diploma of Biostatistics are developed by the Biostatistics Collaboration of Australia (BCA) as part of its overall Biostatistics Program. Consequently, credit and status will be given for any BCA course(s) a candidate at the University of Adelaide has completed while previously enrolled at another BCA partner university.
- 2.3.4 An exemption does not count as a credit towards the Graduate Diploma in Biostatistics. If an exemption for a course is granted, an alternative course must be completed, and co/prerequisites adhered to.
- 2.3.5 A candidate who fails a course and desires to repeat that course shall, unless exempted partially therefrom by the Head of Discipline concerned, again complete the required work in the course to the satisfaction of the teaching staff concerned.
- ### 2.4 Articulation with other awards
- A candidate for the degree of Master of Biostatistics who satisfies the requirements for the Graduate Diploma but who does not complete the requirements of the degree may be admitted to the Graduate Diploma.

## 3 Assessment and examinations

- 3.1 There shall be four classifications of pass in any course for the Graduate Certificate: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.
- 3.2
- A candidate shall not be eligible to sit for examination unless the prescribed work has been completed to the satisfaction of the teaching staff concerned.
  - For the purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.
- 3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the Graduate Diploma, a candidate shall satisfactorily complete courses to the value of 24 units, as follows.

#### 4.1.1 Core courses

The core courses, each worth 3 units, are:

BIOSTATS 6000 Epidemiology .....	3
BIOSTATS 6001 Mathematical Background for Biostatistics.....	3
BIOSTATS 6002 Data Management & Statistical Computing .....	3
BIOSTATS 6003 Probability & Distribution Theory ....	3
BIOSTATS 6004 Design of Randomised Controlled Trials .....	3
BIOSTATS 6005 Principles of Statistical Inference ...	3
BIOSTATS 6006 Linear Models .....	3
BIOSTATS 6007 Categorical Data & Generalised Linear Models .....	3

For the Graduate Diploma in Biostatistics, a candidate must complete all eight core courses unless the candidate has been granted an equivalent prior credit in a course. In that case, a candidate may substitute an elective course for the core course.

#### 4.1.2 Elective courses

If candidates have the equivalent prior credits, they can choose to obtain one or more core course exemptions and substitute elective courses to the same unit value.

The elective courses, each worth 3 units (except where indicated) are:

BIOSTATS 6008 Survival Analysis.....	3
BIOSTATS 6009 Workplace Project Portfolio A.....	3
BIOSTATS 6010 Workplace Project Portfolio B.....	3
BIOSTATS 6011 Bioinformatics .....	3
BIOSTATS 6012 Longitudinal and Correlated Data.....	3
BIOSTATS 6013 Advanced Clinical Trials.....	3
BIOSTATS 6014 Bayesian Statistical Methods.....	3
BIOSTATS 6015 Health Indicators and Health Surveys.....	3
BIOSTATS 6016 Clinical Biostatistics .....	3

Workplace Project Portfolio may be undertaken as a single 3 unit course or two 3 unit courses to the value of 6 units depending on the nature of the project and with the agreement of the course coordinator.

#### 4.2 Unacceptable combinations of courses

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

#### 4.3 Graduation

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

### 5 Special circumstances

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

## 1 General

- 1.1 A candidate who complies with the foregoing conditions and satisfies the examiners and the Faculty of Health Sciences shall be awarded the Graduate Diploma of Clinical Dentistry.
- 1.2 No candidate will be permitted to count for the Graduate Diploma in Clinical Dentistry any course that in the opinion of the Faculty of Health Sciences contains substantially the same material as any course which he or she presented already for another qualification, other than the Graduate Certificate in Dentistry, to a maximum of 6 units.

## 2 Duration of program

- 2.1 To qualify for the Graduate Diploma, a candidate shall:
  - a complete satisfactorily an approved program of study extending over at least one year as a full-time student, or with approval of Faculty of Health Sciences, over a period of not more than three years as a part-time candidate *and*
  - b pass such written, oral, clinical and practical examinations, and submit such reports as may be required by the School of Dentistry.
- 2.2 The program of study, examination, reports and such other work as may be required and the period of study for each candidate shall be specified by the Dean and approved by the School of Dentistry.
- 2.3 Unless the School of Dentistry, on the advice of the Dean, approve an extension of time in a particular case, the work for the Graduate Diploma shall be completed within the period of study approved for the particular candidate under Academic Program Rule 2.1.

## 3 Admission

- 3.1 An applicant for admission to the program of study for the Graduate Diploma shall have qualified for the degree of Bachelor of Dental Surgery in the University of Adelaide, or hold qualifications in a field of dentistry from another institution accepted for the purpose by the University.
- 3.2 Subject to the approval of the Executive Dean, the Faculty of Health Sciences may accept as a candidate an applicant who does not satisfy the requirements of Academic Program Rule 3.1 above but who have given evidence satisfactory to the Faculty of Health Sciences of fitness to undertake advanced work in dentistry.

## 3.3 Prescribed communicable infections policy

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

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

All prospective Faculty of Health Sciences 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](http://www.adelaide.edu.au/student/current/policies.html) which makes reference to the relevant legislation, elaborates on the reasons for the adoption of this policy, and outlines procedures for implementing the policy.

## 4 Assessment and examinations

- 4.1 There shall be four classifications of pass in the courses for the Graduate Diploma: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.
- 4.2 A candidate shall not be eligible to present for examination unless the required program of study has been completed to the satisfaction of the Dean.
- 4.3 The Faculty of Health Sciences shall appoint examiners for written, oral, clinical and other assessments.

## 4.4 Academic progress

A candidate's progress may be reviewed at any time by the Dean. If, in the opinion of the Faculty of Health Sciences a candidate is not making satisfactory progress the Faculty of Health Sciences may, with the consent of Council, terminate the candidature.

## **5 Qualification requirements**

### **5.1 Academic Program**

The program of study shall be as follows:

DENT 6003HO Basic and Applied Dental Sciences .....	2
DENT 6004HO Research Methods and Ethics .....	2
DENT 6058HO Advanced Dental Selective.....	3
DENT 6059HO Advanced Dental Studies .....	3
DENT 6067HO Dental Selective.....	3
DENT 6068HO Dental Studies .....	3
DENT 6069HO Clinical Studies .....	4
DENT 6070HO Advanced Clinical Studies .....	4

### **5.2 Unacceptable combination of courses**

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

### **5.3 Graduation**

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

## **6 Special circumstances**

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



## 1 General

- 1.1 For each candidate, the Faculty of Health Sciences shall appoint a supervisor or supervisors for guidance.
- 1.2 A candidate for the Graduate Diploma shall regularly attend lectures and tutorials, do such written, clinical and other practical work, and pass such examinations, as may be required by the Executive Dean of the Faculty of Health Sciences.
- 1.3 Students shall at all times be under the direction and supervision of a member of the teaching staff, duly appointed by the Director of the Forensic Odontology Unit, and shall carry out such work as shall be allocated.

## 2 Duration of program

To qualify for the Graduate Diploma a candidate shall satisfactorily complete a program of full-time study extending over one year, or of part-time study extending over at least two years. Except with special permission of the Faculty of Health Sciences, the program for the Graduate Diploma shall be completed in not more than three years.

## 3 Admission

- 3.1 An applicant for admission to the program of study for the Graduate Diploma shall have qualified for the degree of Bachelor of Dental Surgery in the University of Adelaide, or hold qualifications in Dentistry from another institution accepted for the purpose by the University.
- 3.2 Subject to the approval of the Council, the Faculty of Health Sciences may accept as a candidate an applicant who does not satisfy the requirements of Academic Program Rule 3.1 above but who have given evidence satisfactory to the Faculty of Health Sciences of fitness to undertake advanced work in dentistry.

### 3.3 Prescribed communicable infections policy

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

The University also has a legal and ethical obligation to take all reasonable measures to prevent the transmission of prescribed communicable infections among students, staff

members and visitors, and recognises that some students with such infections will not be permitted to complete the Bachelor of Medicine, Bachelor of Surgery, the Bachelor of Dental Surgery or other clinical programs offered by the Faculty of Health Sciences.

All prospective Faculty of Health Sciences 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](http://www.adelaide.edu.au/student/current/policies.html) - which makes reference to the relevant legislation, elaborates on the reasons for the adoption of this policy, and outlines procedures for implementing the policy.

## 4 Assessment and examinations

- 4.1 The Faculty of Health Sciences may appoint a Board of Examiners to carry out or supervise the examination of candidates for the Graduate Diploma in accordance with the schedules and syllabuses.
- 4.2 A candidate shall not be eligible to attend for examination unless the prescribed program of study has been completed to the satisfaction of the Executive Dean of the Faculty of Health Sciences.

### 4.3 Academic progress

If in the opinion of the Faculty of Health Sciences a candidate is not making satisfactory progress, the Faculty of Health Sciences may, with the consent of Council, terminate the candidature.

## 5 Qualification requirements

- 5.1 To qualify for the diploma a candidate shall pass the following courses:
 

DENT 6004HO Research Methods and Ethics .....	2
ODONT 6008AHO/BHO Casework in Forensic Odontology .....	6
ODONT 6012HO Principles and Methods of Forensic Odontology .....	6
ODONT 6014AHO/BHO Forensic Odontology Research .....	4
ODONT 6015HO Integrated Forensic Science .....	6
- 5.2 No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty concerned, contains a substantial amount of the same material; and no course or portion of a course may be counted twice towards an award.

### 5.3 Graduation

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

## 6 Special circumstances

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



# Graduate Diploma in Grief and Palliative Care Counselling

## 1 Duration of program

To qualify for the Graduate Diploma, a candidate shall satisfactorily complete four semesters of part-time study.

## 2 Admission

2.1 An applicant for admission to the program of study for the Graduate Diploma in Grief and Palliative Care Counselling shall have qualified for a degree of the University or a degree of another institution accepted by the Faculty of Health Sciences for the purpose as equivalent to a degree of the University.

2.2 The Faculty of Health Sciences may, subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the Graduate Diploma a person who does not satisfy the requirements of rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the Graduate Diploma.

### 2.3 Status, exemption and credit transfer

2.3.1 Except with the special permission of the Head of the Discipline of General Practice, no candidate will be granted status for any of the core courses of the Graduate Diploma.

2.3.2 No candidate shall be granted status for courses with a total value of more than 12 units except for those candidates who have completed antecedent courses in Grief and Palliative Care Counselling presented by the Discipline of General Practice, the University of Adelaide.

2.3.3 A candidate who fails a course and desires to repeat that course shall, unless exempted partially therefrom by the Head of Discipline concerned, again complete the required work in the course to the satisfaction of the teaching staff concerned.

### 2.4 Articulation with other awards

A candidate for the Degree of Master of Grief and Palliative Care Counselling who satisfies the requirements for the Graduate Diploma but who does not complete the requirements for the Degree of Master of Grief and Palliative Care Counselling may be admitted to the Graduate Diploma.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Graduate Diploma: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 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 purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the Graduate Diploma, a candidate shall satisfactorily complete courses to the value of 24 units, as follows:

#### 4.1.1 Core courses

All candidates shall complete the following courses:

GEN PRAC 7101HO Nature of Grief.....	2
GEN PRAC 7104HO Supervised Field Education.....	2
GEN PRAC 7105HO Grief Counselling I.....	2
GEN PRAC 7106HO Grief Counselling II.....	2
GEN PRAC 7107HO Grief Counselling III.....	2
GEN PRAC 7205HO Advanced Grief Counselling IA.....	1
GEN PRAC 7206HO Advanced Grief Counselling II.....	3
GEN PRAC 7207HO Advanced Grief Counselling III.....	3
GEN PRAC 7210HO Advanced Grief Counselling IB.....	1

#### 4.1.2 Elective courses

All candidates shall complete additional elective courses to the value of 4 units selected from the following courses:

GEN PRAC 7102HO Loss and Grief.....	2
GEN PRAC 7103HO Issues in Death and Dying...2	
GEN PRAC 7201HO Grief and Spirituality.....	2
GEN PRAC 7202HO Grief Studies.....	2
GEN PRAC 7209HO Research Design and Methodology.....	2

Other courses offered by this University or other universities that the Faculty approves for presentation in lieu of elective courses listed above up to the value of 4 units.

- 4.1.3 Candidates who wish to enrol in a course for which they do not have the necessary preliminary knowledge or approved qualifications, may be required to under-take such bridging studies prior to the commencement of the course as may be deemed appropriate by the Head of the Discipline of General Practice.

#### **4.2 Unacceptable combinations of courses**

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

#### **4.3 Graduation**

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

### **5 Special circumstances**

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

## 1 General

The Graduate Diploma in Nursing Science offers the following specialisations:

- 1.1 Acute Care Nursing
- 1.2 Anaesthetic and Recovery Nursing
- 1.3 Burns Nursing
- 1.4 Cardiac Nursing
- 1.5 Community Health and Primary Care
- 1.6 Emergency Nursing
- 1.7 Evidence Based Practice
- 1.8 Gerontological Nursing
- 1.9 Infection Control Nursing
- 1.10 Intensive Care Nursing
- 1.11 Mental Health Nursing
- 1.12 Oncology Nursing
- 1.13 Orthopaedic Nursing
- 1.14 Perioperative Nursing

## 2 Duration of program

To qualify for the Graduate Diploma a candidate shall satisfactorily complete a program of study comprising one year of full-time study or the equivalent of part-time study.

## 3 Admission

- 3.1 An applicant for admission to the program of study for the Graduate Diploma 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 *or*
  - c have at least two years experience as a registered nurse in the field of the specialisation to be undertaken.
- 3.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the Graduate Diploma a person who does not satisfy the requirements of Rule 3.1 above, but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the program.
- 3.3 **Status, exemption and credit transfer**
  - 3.3.1 No candidate shall be granted status for courses with a total value of more than 12 units on account of courses presented for any other award.
  - 3.3.2 A candidate who fails a course and desires to repeat that course shall, unless exempted partially therefrom by the Executive Dean of Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

## 3.4 Articulation with other awards

A candidate who has been admitted to the Graduate Certificate in Nursing Science and who has been granted status toward the Graduate Diploma for courses presented for the Graduate Certificate must surrender the Graduate Certificate before being admitted to the Graduate Diploma

## 4 Assessment and Examinations

- 4.1 There shall be four classifications of pass in any course for the Graduate Diploma: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.
- 4.2 A candidate who does not complete the specified work to the satisfaction of the teaching staff concerned shall be awarded a failing grade of Incomplete-Fail.
- 4.3 A candidate who fails a course twice may be subject to a Review of Academic Progress.

## 5 Qualification requirements

### 5.1 Academic program

To qualify for the Graduate Diploma a candidate shall successfully complete the following:

- 5.1.1 Core courses, listed below, to the value of 8 units:
 

NURSING 6101HO Developing Advanced Practice in Health Systems I.....	4
NURSING 6102HO Developing Advanced Practice in Health Systems II.....	4
- 5.1.2 A specialisation set of courses, listed below, to the value of 16 units:

#### Acute Care Nursing

NURSING 619HO Acute Care Nursing.....	4
NURSING 6202HO Nursing and Medical Science in Acute Care Nursing I .....	4
NURSING 6203HO Nursing and Medical Science in Acute Care Nursing II .....	4

and one of the courses listed below:

NURSING 6192HO Medical Nursing.....	4
NURSING 6193HO High Acuity Nursing .....	4
NURSING 6194HO Surgical Nursing.....	4

#### Anaesthetic and Recovery Nursing

NURSING 6104HO Nursing & Medical Science in Anaesthesia & Recovery I .....	4
NURSING 6105HO Nursing & Medical Science in Anaesthesia & Recovery II .....	4
NURSING 6178HO Anaesthetic & Recovery Nursing I .....	4
NURSING 6179HO Anaesthetic & Recovery Nursing II .....	4

## **Burns Nursing**

NURSING 6181HO Nursing & Medical Science in Burns Nursing I.....	4
NURSING 6182HO Nursing & Medical Science in Burns Nursing II.....	4
NURSING 6183HO Burns Nursing I.....	4
NURSING 6184HO Burns Nursing II.....	4

## **Cardiac Nursing**

NURSING 6108HO Cardiac Nursing I.....	4
NURSING 6109HO Cardiac Nursing II.....	4
NURSING 6110HO Nursing & Medical Science in Cardiac Nursing I.....	4
NURSING 6111HO Nursing & Medical Science in Cardiac Nursing II.....	4

## **Community Health and Primary Care**

NURSING 6272HO Primary Health Care.....	4
and electives with a minimum of 12 units from those listed below:	
NURSING 6133HO Health Assessment.....	3
NURSING 6168HO Population Profiling in Chronic Illness.....	4
NURSING 6117HO Infection Control Nursing.....	6
NURSING 6195HO Working with Clients and Community.....	4
NURSING 6271HO Management of Chronic Illness.....	4
NURSING 6273HO Pathology & Pharmacology.....	3
NURSING 6274HO Wound Management.....	4
NURSING 6277HO Emergency Care in the Community.....	2
GEN PRAC 7103HO Issues in Death and Dying.....	2
GEN PRAC 7102HO Loss and Grief.....	2
PUB HLTH 7073HO Indigenous Health.....	3
PUB HLTH 7075HO Introduction to Epidemiology.....	3

## **Emergency Nursing**

NURSING 6127HO Emergency Nursing I.....	4
NURSING 6128HO Emergency Nursing II.....	4
NURSING 6129HO Nursing & Medical Science in Emergency Nursing I.....	4
NURSING 6130HO Nursing & Medical Science in Emergency Nursing II.....	4

## **Evidence Based Practice**

NURSING 5109HO Introduction to Evidence Based Health Care.....	6
NURSING 5110HO Change Management and Evaluation.....	6
NURSING 6103HO Focussed Reading in Clinical Nursing.....	4

## **Gerontological Nursing**

NURSING 6136HO Contemporary Issues in Aged Care.....	4
NURSING 6137HO Functional Assessment.....	4
NURSING 6138HO Gerontological Nursing.....	4
NURSING 6139HO Palliative Nursing in Aged Care.....	4

## **Infection Control Nursing**

NURSING 5104HO Microbiology and Epidemiology 6	
NURSING 6117HO Infection Control Nursing.....	6
The student must complete a further 4 units by selecting one of the following courses:	
NURSING 6103HO Focussed Reading in Clinical Nursing.....	4
NURSING 6201 Advanced Infection Control Practice.....	4

## **Intensive Care Nursing**

NURSING 6144HO Intensive Care Nursing I.....	4
NURSING 6145HO Intensive Care Nursing II.....	4
NURSING 6146HO Nursing & Medical Science in Intensive Care I.....	4
NURSING 6147HO Nursing & Medical Science in Intensive Care II.....	4

## **Mental Health Nursing**

NURSING 6196HO Acute Mental Health Care I....	4
NURSING 6197HO Acute Mental health Care II...4	
NURSING 6198HO Primary Mental Health Care...4	
The student must complete a further 4 units of study by selecting one of the following two courses:	
NURSING 6199HO Therapeutic Advances in Acute Mental Health.....	4
NURSING 6200HO Community Mental Health Nursing.....	4

## **Oncology Nursing**

NURSING 6152HO Nursing & Medical Science in Oncology Nursing I.....	4
NURSING 6153HO Nursing & Medical Science in Oncology Nursing II.....	4
NURSING 6154HO Oncology Nursing I.....	4
NURSING 6155HO Oncology Nursing II.....	4

## **Orthopaedic Nursing**

NURSING 6156HO Nursing and Medical Science.. in Orthopaedics I.....	4
NURSING 6157HO Orthopaedic Nursing I.....	4
NURSING 6158HO Orthopaedic Nursing II.....	4
NURSING 6175HO Nursing & Medical Science in Orthopaedics II.....	4

## Perioperative Nursing

NURSING 6159HO Nursing & Medical Science in Perioperative Nurs I .....	4
NURSING 6160HO Nursing & Medical Science in Perioperative Nurs II .....	4
NURSING 6161HO Perioperative Nursing I.....	4
NURSING 6162HO Perioperative Nursing II.....	4

- 5.1.3 Notwithstanding the above, if a candidate has successfully completed a recognised hospital certificate and gained at least two years advanced post registration experience in the specialisation of the certificate within five years of commencing candidature, the candidate shall qualify for the Graduate Diploma by successfully completing:
- core courses listed in 5.1 above to the value of 8 units
  - the four unit course NURSING 6103HO Focused Reading in Clinical Nursing or, at the discretion of the coordinator, another course offered by the Discipline.

## 5.2 Additional specialisations

If a candidate who qualifies for the Graduate Diploma subsequently undertakes another specialisation, the candidate will receive a new testamur listing the specialisations completed.

## 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 concerned, contains a substantial amount of the same material; and no course or portion of a course may be counted twice towards an award.

## 5.4 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

### Graduate Diploma In Nursing Science

Graduates of the Graduate Diploma in Nursing Science will be distinguished by the following attributes:

- A rigorous academic knowledge of the sciences that inform nursing practice in the specialty
- The clinical and technological skills required to provide high quality effective nursing care in the chosen specialty
- The ability to work as team leaders and managers and to undertake the role of case management and care coordination in the chosen specialty
- The ability to apply critical thinking skills to problem solving in advanced specialty practice
- The ability to evaluate nursing care according to professional standards of practice within the chosen specialty
- Highly developed communication skills and sound interpersonal skills to work effectively in a leadership role within the multidisciplinary team
- The attitudes and skills to practice person-centred nursing in a culturally sensitive and ethically sound manner in the chosen specialty
- Being committed to and having the skills to continue life long learning to advance nursing practice in their specialty
- Possessing skills and knowledge to practice as a specialist nurse in a technologically dynamic environment
- The ability to effectively integrate skills and knowledge in order to facilitate quality nursing care in their specialty
- Having the skills, knowledge and attitudes to manage and implement care for the patient with complex health needs
- Being prepared to promote safe practice in accordance with legislation, professional codes, and specialty competencies and guidelines
- The ability to critically analyse in order to evaluate the evidence and make decisions to implement specialist nursing care based on the best available evidence
- Having a sound understanding of the dynamics of the health care system and the sociological, cultural and political influences that influence specialty professional practice.





# Graduate Diploma in Occupational Health and Safety Management

## 1 Duration of program

To qualify for the Graduate Diploma, a candidate shall satisfactorily complete one year of full-time study or no more than two years of part-time study.

## 2 Admission

2.1 An applicant for admission to the academic program for the Graduate Diploma in Occupational Health and Safety Management shall have qualified for a degree of the University or a degree of another institution accepted by the Faculty for the purpose as equivalent to a degree of the University.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the Graduate Diploma a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the Graduate Diploma.

## 2.3 Status, exemption and credit transfer

2.3.1 Except with special permission of the Faculty, no candidate will be granted status for any course that he or she has presented for any award other than the Graduate Certificate in Occupational Health and Safety Management (see Rule 2.4 below).

2.3.2 In any case, no candidate will be awarded more than 12 units of status.

2.3.3 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially therefrom by the Head of Discipline concerned, again complete the required work in the course to the satisfaction of the teaching staff concerned.

## 2.4 Articulation with other awards

2.4.1 A candidate who has been admitted to the Graduate Certificate in Occupational Health and Safety Management and who has been granted status toward the Graduate Diploma for courses presented for the Graduate Certificate must surrender the Graduate Certificate before being admitted to the Graduate Diploma.

2.4.2 A candidate for the degree of Master of Occupational Health and Safety who satisfies the requirements for the Graduate Diploma but who does not complete the requirements of the Masters degree may be admitted to the Graduate Diploma.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Graduate Diploma: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass. Further a pass will be recorded in two

divisions, with a Pass Division I being higher than a Pass Division II. At least a Pass Division I in each compulsory course and a Pass Division II in each elective course is required to complete this award.

- 3.2 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 purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.
- 3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

### 4.1 Academic programs

To qualify for the Graduate Diploma, a candidate shall satisfactorily complete courses to the value of 24 units, as follows - with the proviso that at least half of the coursework is completed at the University of Adelaide:

#### 4.1.1 Core courses

All candidates shall complete the following core course, being the requirement for the Graduate Diploma in Occupational Health and Safety Management:

OH&S 7031HO Occupational Hygiene & Ergonomics*	3
OH&S 7105HO Diseases of Occupation*	3
OH&S 7131HO Occupational Safety and Statistics**	3
OH&S 7132HO OHS Law & Risk Management **	3

#### 4.1.2 Elective courses

All candidates shall complete 12 units selected from the following elective courses:

PUB HLTH 7134HO Advanced Occupational Hygiene*	3
PUB HLTH 7135HO Advanced OHS Management <sup>+</sup>	3
PUB HLTH 7136HO Occupational Safety <sup>+</sup>	3
PUB HLTH 7137HO Occupational Toxicology*	3
PUB HLTH 7138HO OHS Management and Law IIG* <sup>+</sup>	3
PUB HLTH 7139HO OHS Research Methods <sup>#</sup>	3

PUB HLTH 7140HO OHSM Dissertation # .....	6
PUB HLTH 7141HO Practical Occupational Health* .....	3

\* offered by the University of Adelaide

+ offered by the University of South Australia

# offered by either university

#### 4.2 Unacceptable combinations of courses

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

#### 4.3 Graduation

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

### 5 Special circumstances

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

## 1 Duration of program

The program of study shall extend over one year of full-time study.

## 2 Admission

### 2.1 Status exemption and credit transfer

2.1.1 Candidates shall hold an approved degree or equivalent qualification from an approved tertiary institution, and meet the prerequisites for Level II Psychology topics by having completed either:  
University of Adelaide courses PSYCHOL 1000 and PSYCHOL 1001 or PSYCHOL 6000 or PSYCHOL 6100 or PSYCHOL 6100NA or equivalent with a grade of P or better *or*

equivalent topics from other institutions that are deemed suitable by the Discipline of Psychology and the Faculty of Health Sciences.

2.1.2 In determining a candidate's eligibility for the award of the degree, the School may disallow any course passed more than 10 years previously. Credit for other courses up to the equivalent of 6 units may be allowed at the discretion of the Head of the School of Psychology.

## 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.

## 4 Qualification requirements

4.1 To qualify for the Graduate Diploma a candidate shall, subject to the conditions specified below, pass courses to the value of at least 24 units, which must include the following:

- a Level II courses to the value of 12 units, which must include those courses listed in 4.3.1. below
- b Level III courses to the value of 12 units, which must include PSYCHOL 6024 plus other courses to the value of 9 units, listed in 4.3.2 below.

4.2 A candidate who has completed all requirements of the Graduate Diploma in Psychology to a standard acceptable to the Faculty may apply for admission to the Bachelor of Health Sciences (Honours) program.

## 4.3 Academic Program

### 4.3.1 LEVEL II

PSYCHOL 6020 Doing Research in Psychology ...	3
PSYCHOL 6021 Foundations of Health & Lifespan Development .....	3
PSYCHOL 6022 Foundations of Perception & Cognition.....	3
PSYCHOL 6023 Psychology in Society .....	3

### 4.3.2 LEVEL III

PSYCHOL 6024 Doing Research In Psychology: Advanced .....	3
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Plus courses from the list below to the value of 9 units:

PSYCHOL 6025 Health & Lifespan Developmental Psychology .....	3
PSYCHOL 6026 Individual Differences, Personality & Assessment .....	3
PSYCHOL 6027 Perception & Cognition.....	3
PSYCHOL 6028 Psychology, Ideas and Action .....	3
PSYCHOL 6029 Psychology in Society: Advanced..	3

## 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 Council in each case, may vary any of the provisions of the Academic Program Rules for any particular award.



# Graduate Diploma in Public Health

## 1 Duration of program

To qualify for the Graduate Diploma, a candidate shall satisfactorily complete one year of full-time study or the equivalent of part-time study.

## 2 Admission

2.1 An applicant for admission to the program of study for the Graduate Diploma in Public Health shall have qualified for a degree of the University or a degree of another institution accepted by the Faculty for the purpose as equivalent to a degree of the University.

2.2 The Faculty may, subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the Graduate Diploma a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the Graduate Diploma.

## 2.3 Status, exemption and credit transfer

2.3.1 Except with the special permission of the Head of the Discipline of Public Health, no candidate will be granted status for any of the core courses of the Graduate Diploma.

2.3.2 No candidate shall be granted status for courses with a total value of more than 12 units.

2.3.3 A candidate who fails a course and desires to repeat that course shall, unless exempted partially therefrom by the Head of Department concerned, again complete the required work in the course to the satisfaction of the teaching staff concerned.

## 2.4 Articulation with other awards

2.4.1. A candidate for the degree of Master of Public Health who satisfies the requirements for the Graduate Diploma but who does not complete the requirements of the degree may be admitted to the Graduate Diploma.

2.4.2 Candidates who have conferred upon them the award of Graduate Certificate in Public Health who subsequently satisfy the requirements of the Graduate Diploma must surrender their Graduate Certificate before being admitted to the Graduate Diploma.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Graduate Certificate: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 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 purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the Graduate Diploma, a candidate shall satisfactorily complete courses to the value of 24 units, as follows.

#### 4.1.1 Core courses

All candidates shall complete the following courses:

PUB HLTH 7074 Introduction to Biostatistics ..... 3  
 PUB HLTH 7075 Introduction to Epidemiology..... 3

#### 4.1.2 Elective courses

All candidates shall complete at least 6 units selected from the following courses:

PUB HLTH 7073 Indigenous Health ..... 3  
 PUB HLTH 7076 Health Policy and Public Health Interventions ..... 3  
 PUB HLTH 7078 Social Science Research Methods for Public Health..... 3  
 PUB HLTH 7081 Health Economics ..... 3  
 and up to 12 units from  
 DENT 7150HO Dental Public Health ..... 3  
 PUB HLTH 7031HO Occupational Hygiene and Ergonomics..... 3  
 PUB HLTH 7082 Advanced Health Economic Evaluation and Decision Making  
 PUB HLTH 7104HO Biostatistics..... 3  
 PUB HLTH 7105HO Diseases of Occupation..... 3  
 PUB HLTH 7106HO Epidemiological Research Methods..... 3  
 PUB HLTH 7107HO Epidemiology of Infectious Diseases ..... 3  
 PUB HLTH 7108HO Public Health Ethics ..... 3  
 PUB HLTH 7111HO Industrial Toxicology ..... 3  
 PUB HLTH 7113HO Introduction to Environmental and Occupational Health..... 3  
 PUB HLTH7115HO Public Health Law ..... 3  
 PUB HLTH 7118HO Public Health Studies..... 3  
 PUB HLTH 7147HO Health Technology Assessment ..... 3

Or other courses offered by this University or other universities which the Faculty approves for presentation in lieu of elective courses listed above to the value of 6 units.

- 4.2 Candidates who wish to enrol in a course for which they do not have the necessary preliminary knowledge or approved qualifications, may be required to undertake such bridging studies prior to the commencement of the course as may be deemed appropriate by the Head of the Discipline of Public Health.

#### **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 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 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.



# Master of Biostatistics

## 1 Duration of program

To qualify for the degree, a candidate shall satisfactorily complete a course of study comprising three semesters of full-time study or the equivalent of part-time study.

## 2 Admission

- 2.1 The Faculty of Health Sciences may accept as a candidate for the degree any person who has qualified for a Graduate Diploma, Honours Degree or Professional Bachelor degree in a relevant field of the University of Adelaide or of another university.
- 2.2 The Faculty of Health Sciences may in special cases and subject to such conditions as it may see fit to impose in each case, accept as a candidate for the degree a person who does not meet the requirements specified in 2.1 above if it is satisfied that he or she is likely to be able satisfactorily to undertake work for the degree.
- 2.3 The Faculty of Health Sciences may require an applicant to complete such preliminary work as it may prescribe before being accepted as a candidate for the degree.
- 2.4 **Status, exemption and credit transfer**
  - 2.4.1 Except with special permission of the Faculty, no candidate will be granted status for any course that he or she has presented for any other award (see Rule 2.5 below).
  - 2.4.2 In any case, no candidate will be awarded more than 9 units of status, except for those candidates who have completed the Graduate Diploma in Biostatistics.
  - 2.4.3 All courses offered within the Master of Biostatistics are developed by the Biostatistics Collaboration of Australia (BCA) as part of its overall Biostatistics Program. Consequently, credit and status will be given for any BCA course/s a candidate at the University of Adelaide has completed while previously enrolled at another BCA partner university.
  - 2.4.4 An exemption does not count as a credit towards the Master of Biostatistics. If an exemption for a course is granted, an alternative course must be completed, and co/prerequisites adhered to.
  - 2.4.5 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially therefrom by the Head of Discipline concerned, again complete the required work in the course to the satisfaction of the teaching staff concerned.

## 2.5 Articulation with other awards

- 2.5.1 A candidate for the Master of Biostatistics who does not complete the requirements for the Masters degree but satisfies the requirements for the Graduate Certificate or Graduate Diploma may be admitted to one or other of those awards as appropriate.
- 2.5.2 A candidate who has been admitted to the Graduate Diploma in Biostatistics or the Graduate Certificate in Biostatistics and who subsequently satisfies the requirements for the Master of Biostatistics must surrender the Graduate Diploma or Graduate Certificate respectively before being admitted to the Master degree.

## 3 Assessment and examination

- 3.1 There shall be four classifications of pass in any course for the Masters degree: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.
- 3.2
  - a A candidate shall not be eligible to sit for examination unless the prescribed work has been completed to the satisfaction of the teaching staff concerned.
  - b For the purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.
- 3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the degree, a candidate shall satisfactorily complete courses to the value of 36 units.

#### 4.1.1 Core courses

All candidates shall complete the following core courses:

BIOSTATS 6000 Epidemiology .....	3
BIOSTATS 6001 Mathematical Background for Biostatistics.....	3
BIOSTATS 6002 Data Management & Statistical Computing .....	3
BIOSTATS 6003 Probability and Distribution Theory (PDT) .....	3
BIOSTATS 6004 Design of Randomised Controlled Trials .....	3

BIOSTATS 6005 Principles of Statistical Inference .....	3
BIOSTATS 6006 Linear Models .....	3
BIOSTATS 6007 Categorical Data and Generalised Linear Models .....	3
BIOSTATS 6008 Survival Analysis.....	3
BIOSTATS 6009 Workplace Project Portfolio A.....	3

#### 4.1.2 Elective courses

All candidates shall complete at least one elective course, to the value of 3 units. In addition, if candidates have the equivalent prior credits, they can choose to obtain one or more core course exemptions and substitute elective courses to the same unit value.

The elective courses are:

BIOSTATS 6010 Workplace Project Portfolio B .....	3
(with the approval of the course coordinator)	
BIOSTATS 6011 Bioinformatics .....	3
BIOSTATS 6012 Longitudinal and Correlated Data.....	3
BIOSTATS 6013 Advanced Clinical Trials.....	3
BIOSTATS 6014 Bayesian Statistical Methods.....	3
BIOSTATS 6015 Health Indicators and Health Surveys.....	3
BIOSTATS 6016 Clinical Biostatistics .....	3

#### 4.2 Unacceptable combinations of courses

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

#### 4.3 Graduation

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

### 5 Special circumstances

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



## 1 General

1.1 This document must be read in conjunction with:

- a the General Academic Program Rules for Master by Research Programs (see under Adelaide Graduate Centre, p.18) *and*
- b the Research Student Handbook, published by the Adelaide Graduate Centre.

These documents explain procedures to be followed and contain guidelines on supervision and research for the degree of Doctor of Philosophy and the various Masters Degrees by Research, offered by the University.

All students must comply with both the General Academic Rules and the rules following below, and procedures outlined in the Research Student Handbook.

In addition to the General Academic Program Rules for Masters by Research degrees, in this publication, the following discipline specific rules apply.

## 2 Admission

2.1 Further to Rule 4.1 of the General Academic Program Rules, an applicant for admission to the program for the Master of Clinical Science shall:

- a have qualified for the degrees of Bachelor of Medicine and Bachelor of Surgery of the University or degrees of another institution accepted by the Research Education and Development Committee for the purpose as equivalent *or*
- b have qualified for a degree of Bachelor of Nursing of a university accepted for the purpose by the University *or*
- c have qualified for the Graduate Diploma in Grief and Palliative Care Counselling with results of credit level or higher *or*
- d have qualified for a Bachelor degree of the University of Adelaide in an appropriate field of study, or Committee for the purpose as equivalent, plus have at least two years' approved professional work experience.





# Master of Grief and Palliative Care Counselling

## 1 Duration of program

To qualify for the degree, a candidate shall satisfactorily complete six semesters of part-time study.

## 2 Admission

2.1 The Faculty of Health Sciences may accept as a candidate for the degree any person who has qualified for a degree of the University of Adelaide or of another university.

2.2 Subject to the approval of the Board of Research Education and Development acting with authority wittingly devolved to it by Council the Faculty of Health Sciences may in special cases and subject to such conditions as it may see fit to impose in each case, accept as a candidate for the degree a person who does not meet the requirements specified in 2.1 above if it is satisfied that he or she is likely to be able satisfactorily to undertake work for the degree.

2.3 The Faculty of Health Sciences may require an applicant to complete such preliminary work as it may prescribe before being accepted as a candidate for the degree.

### 2.4 Status, exemption and credit transfer

2.4.1 Except with special permission of the Faculty, no candidate will be granted status for any course that he or she has presented for any other award (See Rule 2.5 below).

2.4.2 Such status as may be awarded in exceptional circumstances will only be awarded for graduate level studies.

2.4.3 In any case, no candidate will be awarded more than 12 units of status, except for those candidates who have completed the Graduate Diploma in Grief and Palliative Care Counselling, or antecedent courses in Grief and Palliative Care Counselling presented by the Discipline of General Practice, the University of Adelaide.

2.4.4 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially therefrom by the Head of Discipline concerned, again complete the required work in the course to the satisfaction of the teaching staff concerned.

### 2.5 Articulation with other awards

2.5.1 A candidate for the Master of Grief and Palliative Care Counselling who does not complete the requirements for the Masters degree but satisfies the requirements for the Graduate Certificate or Graduate Diploma may be admitted to one or other of those awards as appropriate.

2.5.2 A candidate who has been admitted to the Graduate Diploma in Grief and Palliative Care Counselling or the Graduate Certificate in Grief and Palliative Care Counselling and who subsequently satisfies the requirements for the Master of Grief and Palliative Care Counselling must surrender the Graduate Diploma or Graduate Certificate respectively before being admitted to the Master degree.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Masters degree: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 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 purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the degree, a candidate shall satisfactorily complete courses to the value of 36 units, as follows:

#### 4.1.1 Core courses

All candidates shall complete the following core courses:

GEN PRAC 7101HO Nature of Grief.....	2
GEN PRAC 7104HO Supervised Field Education.....	2
GEN PRAC 7105HO Grief Counselling I.....	2
GEN PRAC 7106HO Grief Counselling II.....	2
GEN PRAC 7107HO Grief Counselling III.....	2
GEN PRAC 7205HO Advanced Grief Counselling IA.....	1
GEN PRAC 7206HO Advanced Grief Counselling II.....	3
GEN PRAC 7207HO Advanced Grief Counselling III.....	3
GEN PRAC 7210HO Advanced Grief Counselling IB.....	1

*and one of*

GEN PRAC 7102HO Loss and Grief .....2

GEN PRAC 7103HO Issues in Death and Dying ...2

#### **4.1.2 Elective courses**

All candidates shall complete an additional 4 units selected from the following elective courses:

GEN PRAC 7102HO Loss and Grief .....2

GEN PRAC 7103HO Issues in Death & Dying .....2

GEN PRAC 7201HO Grief and Spirituality.....2

GEN PRAC 7202HO Grief Studies.....2

GEN PRAC 7209HO Research Design  
and Methodology ..... 2

Other courses offered by this University or other universities that the Faculty approves for presentation in lieu of elective courses listed above up to the value of 4 units.

#### **4.1.3 Dissertation**

All candidates shall complete either the full-time or the part-time version of the following course:

GEN PRAC 7304HO MGPCC Dissertation  
Full-time) ..... 12

GEN PRAC 7404AHO/BHO MGPCC Dissertation  
(Part-time)..... 12

#### **4.2 Unacceptable combinations of courses**

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

#### **4.3 Graduation**

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

### **5 Special circumstances**

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

## **Graduate Attributes**

### Postgraduate Coursework Programs in Grief and Palliative Care Counselling

The Grief and Palliative Care Counselling program encourages the following attributes in its graduates:

- Specialised up-to-date knowledge and understanding of grief and its associated issues, together with effective skills for appropriate interventions with grieving people
- The ability to evaluate and synthesise grief-related information from a wide variety of sources
- The ability to apply knowledge and skills to their own relevant professional situations
- A high level of interpersonal skills, essential in communication with grieving individuals and families, as well as in the workplace
- Proficient use of technology appropriate to learning at a post-graduate level
- Commitment to lifelong learning. Graduates are encouraged to build on their experience and previous learning in order to maximise their personal and professional effectiveness
- The ability to take leadership and to share their learning in their own communities and workplaces
- Appropriate practice and awareness of ethical, social and cultural issues relevant to the areas, of grief, loss bereavement and palliative care.



## 1. General

- 1.1 This document must be read in conjunction with:
- a the General Academic Program Rules for Master by Research Programs (see under Adelaide Graduate Centre, p.18) *and*
  - b the Research Student Handbook, published by the Adelaide Graduate Centre.

These documents explain procedures to be followed and contain guidelines on supervision and research for the degree of Doctor of Philosophy and the various Masters Degrees by research, offered by the University.

All students must comply with both the General Academic Rules and the rules following below, and procedures outlined in the Research Student Handbook.

In addition to the General Academic Program Rules for Masters by Research degrees, in this publication, the following discipline specific rules apply.

## 2. Admission

- 2.1 Further to the Admission Rules listed on pages 8 and 9 of the general Academic Program Rules, admission to candidature for the Master in Grief and Palliative Care Research may be granted to persons who have qualified for an degree of the University of Adelaide in an appropriate field of study, or a degree of another institution accepted by the Faculty for the purpose as equivalent, and who have at least two years' approved professional work experience.

## 1 Duration of program

To qualify for the degree, a candidate shall satisfactorily complete a program of study comprising four semesters of full-time study or equivalent part-time study. The maximum time permitted for completion of the program is eight years.

## 2 Admission

2.1 An applicant for admission to the academic program for the degree of Master of Health Economics and Policy shall have qualified for:

- a Bachelor of Economics at the University of Adelaide, or another institution accepted by the School for the purpose as equivalent *or*
- b Graduate Certificate in Economics from the University of Adelaide.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the degree a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the School of fitness to undertake the degree.

2.3 A knowledge of SACE Stage 2 Mathematical Studies or equivalent is assumed.

## 2.4 Status, exemption and credit transfer

2.4.1 No candidate shall be granted status for courses with a total value of more than 12 units on account of courses presented for any other award except with permission from the program coordinator. Exemptions will be granted for up to 12 units of courses where, in the opinion of the program coordinator, the candidate has already presented a course/s for another award that contain(s) substantially the same material as any of the courses in the program. All exemptions granted must be replaced by courses chosen by the candidate from other parts of the program.

2.4.2 Graduates of the Graduate Certificate in Economics from the University of Adelaide shall be granted 12 units of credit towards the program.

## 3 Assessment and Examinations

3.1 There shall be four classifications of pass in any course for the Masters degree: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 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 purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

3.3 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially there from by the program coordinator or nominee, again complete the required work in the course to the satisfaction of the teaching staff concerned.

3.4 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the School and then only under such conditions as may be prescribed.

## 4 Qualification Requirements

4.1 To qualify for the degree of Masters of Health Economics and Policy, a candidate shall satisfactorily complete courses to the value of 48 units including:

### 4.1.1 Qualifying introductory courses

(for those without an Economics background)

ECON 7011 Consumers Firms & Markets IID .....	3
ECON 7051 Economics & Financial Data Analysis IID .....	3
ECON 7058 Development Economics IIID.....	3
ECON 7071 Macroeconomics Theory and Policy IID .....	3

### 4.1.2 Core courses

All of the following compulsory courses:

ECON 7001 Applied Econometrics IIID.....	3
ECON 7032 Public Economics IIID.....	3
ECON 7141 Challenges Facing Economic Policy Makers.....	3
ECON 7205 Public Finance IIID .....	3

*Public Health courses:*

Advanced Health Economics .....	3
Health Economics.....	3
PUB HLTH 7075 Introduction to Epidemiology.....	3
PUB HLTH 7076 Public Health Interventions .....	3

### 4.1.3 Electives

Elective courses to the value of at least 12 units\*

#### Economics

International Theory .....	3
ECON 7062 Strategic Thinking for Decision Makers IIID.....	3
ECON 7071 Macroeconomic Theory & Policy IID...	3
ECON 7096 Economic Theory IIID .....	3

<b>Public Health</b>	
PUB HLTH 7104 Biostatistics .....	3
PUB HLTH 7106 Epidemiological Research Methods.....	3
PUB HLTH 7078 Social Science Research Methods for Public Health.....	3
PUB HLTH 7147 Health Technology Assessment .....	3
<b>Management</b>	
ACCTING 7024 Accounting Essentials for Decision Making (M) .....	3
COMMGMT 7006 Organisational Behaviour (M) ...	3
COMMGMT 7010 Optimising Human Performance (M) .....	3
COMMGMT 7013 Strategic Evaluation and Control (M) .....	3
MANAGEMENT 7086 Fundamentals of Leadership .....	3
MANAGEMENT 7101 Managerial Finance.....	3
MANAGEMENT 7104 Marketing Management .....	3

or

#### 4.1.4 Dissertation

Candidates may complete a research course in lieu of 12 units in 4.1.3

*Public Health courses:*

Dissertation in Health Economics and Policy (full time) .....	12
Dissertation in Health Economics and Policy (part time).....	12

\*This list is not exhaustive. With approval from the course coordinator, other courses may be chosen

#### 4.1.5 Dissertation requirements

Only available to students who have achieved Distinction average. Interested students must first consult with the Academic Program Coordinator.

#### 4.1.6 Qualifying for a specialisation

In order to qualify for a specialisation, elective courses to the value of at least 9 units must be taken from one of the 3 categories listed above. Students who choose to complete a dissertation rather than electives will attain a specialisation dependant on their dissertation topic.

#### 4.2 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.

### 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**

### Master of Health Economics and Policy

Graduates of the Graduate Certificate in Nursing Science will be distinguished by the following attributes:

- Knowledge and understanding of the content of economics at advanced levels that are internationally recognised, including specialisation in the fields of health economics and public policy
- The ability to analyse, evaluate and synthesise information from a wide variety of sources and experiences relevant to this field
- A growth in critical thinking and problem-solving skills with respect to the field of health policy.
- The enhanced capacity to learn and maintain intellectual curiosity and a commitment to continuous learning in these fields
- The significant improvement in their ability to take a leadership role in policy-making processes and a commitment to the highest standards of professional endeavor.



## 1 General

1.1 This document must be read in conjunction with:

- a the General Academic Program Rules for Master by Research Programs (see under Adelaide Graduate Centre, p.18) *and*
- b the Research Student Handbook, published by the Adelaide Graduate Centre.

These documents explain procedures to be followed and contain guidelines on supervision and research for the degree of Doctor of Philosophy and the various Masters Degrees by Research, offered by the University.

All students must comply with both the General Academic Rules and the rules following below, and procedures outlined in the Research Student Handbook.

In addition to the General Academic Program Rules for Masters by Research degrees, in this publication, the following discipline specific rules apply.

## 2 Admission

2.1 Further to Rule 4.1a of the General Program Rules, the Research Education and Development Committee may accept as a candidate for the degree a person who has qualified for:

- a the degrees of Bachelor of Medicine and Bachelor of Surgery of the University of Adelaide *or*
- b the Honours degree of Bachelor of Medical Science or Bachelor of Health Sciences or Bachelor of Science or Bachelor of Science in Dentistry of the University of Adelaide, at First or Second Class standard.



## 1 Duration of program

- 1.1 Except with the permission of the Faculty, the course shall be completed in not more than one year of full-time study.
- 1.2 A student whose work on any of the course components is interrupted for a reason acceptable to the Executive Dean may be granted an intermission of candidature by the Head of the Discipline of Surgery on behalf of the Faculty. If such an application is approved the maximum period specified in clause 1.1 will be adjusted accordingly by adding the length of the intermission.

## 2 Admission

- 2.1 An applicant for admission to the program of study for the degree of Master of Minimally Invasive Surgery applicants shall have qualified for a FRACS or equivalent, or completed their surgical training.
- 2.2 Overseas applicants must meet the requirements of the Temporary Business (Long Stay) 457 visa
- 2.3 Overseas applicants must register with the South Australian Medical Board

## 2.4 Status, exemption and credit transfer

- 2.4.1 Except by special permission of the Discipline of Surgery, no student may gain status for the Master of Minimally Invasive Surgery for other studies undertaken in the University or other institutions.

## 3 Assessment and examinations

- 3.1 There shall be one system classification of pass in individual courses for the Master's degree: Satisfactory; or Pass with High Distinction
- 3.2 On completion of the publication for the Research and Development component of the program the student shall lodge with the Discipline a copy of the publication prepared in accordance with directions given to students from time to time. No publication or material presented for any other degree within this or any other institution shall be submitted.
- 3.3 Two examiners of the publication for the Research and Development component of the program will be appointed by the Head of the Discipline of Surgery. Both examiners will normally be internal to the Discipline but not include the student's supervisor.

## 3.4 Review of academic progress

- 3.4.1 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 teaching staff concerned may prescribe.

3.4.2 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 Faculty and then only under such conditions as may be prescribed.

3.4.3 Attendance is required for at least 80% of the sessions in any compulsory course. A student who fails this requirement will not be eligible for examination unless there are extenuating circumstances.

3.4.4 For the purposes of this clause a student who is refused permission to be assessed, by examination or otherwise, or who does not, without a reason accepted by the Head of the Discipline of Surgery as adequate, attend all or part of the 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 course.

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

## 4 Qualification requirements

- 4.1 Unless exempted therefrom by the Faculty all students will satisfactorily complete Compulsory Courses to the value of 24 units including a 12 month clinical placement at The Queen Elizabeth Hospital offering services approved by the Head of the Discipline of Surgery.

## 4.2 Academic program

Unless exempted from by the Faculty of Health Sciences, every student for the degree shall satisfactorily complete the following components:

### 4.2.1 Courses

All students shall complete the following compulsory courses:

MMIS0001 Minimally Invasive Surgery - Theory 1 .....	3
MMIS0002 Minimally Invasive Surgery - Research and Development 1 .....	3
MMIS0003 Supervised Clinical Practice 1 .....	6
MMIS0004 Minimally Invasive Surgery - Theory 2 .....	3
MMIS0005 Minimally Invasive Surgery - Research and Development 2 .....	3
MMIS0006 Supervised Clinical Practice 2 .....	6

### **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 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 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.

## **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**

### Master of Minimally Invasive Surgery

Graduates will have the following attributes:

- Knowledge and understanding of the content and techniques of minimally invasive surgery at advanced levels that are internationally recognised
- An appreciation of their potential contribution to knowledge through the traditions and innovations of minimally invasive surgery
- A proficiency in the practice of the surgical techniques applied in minimally invasive surgery
- The skills and discipline to research, synthesise, organise and present information, using a range of technologies appropriate to the discipline of minimally invasive surgery.
- Analytical and problem solving skills that can be used on any complications that may arise before, during or after minimally invasive surgery
- The ability to argue from evidence
- The ability to communicate effectively
- An understanding of the importance of lifelong learning and continuing professional development
- An understanding of ethical issues in both intellectual and professional contexts.



## 1 Duration of program

To qualify for the Master of Nurse Practitioner a candidate shall satisfactorily complete an academic program of full-time study extending over at least one year or a program of part time study extending over at least two years.

## 2 Admission

2.1 An applicant for admission to the program for the Master of Nurse Practitioner shall:

- a have qualified for a Graduate Diploma in Nursing Science (Stage 1) of the University in the specialty in which they propose to practice as a Nurse Practitioner or for a Graduate Diploma in Nursing from another university accepted for the purposes by the University. *and*
- b have minimum of 5000 hours of practice and evidence of current employment of at least 0.6 FTE as a Nurse Practitioner candidate in the specialty they wish to practice and
- c be a Registered Nurse, or eligible for registration as a nurse in South Australia
- d have obtained the approval of the Discipline of Nursing.

2.2 Course to the approval of Council, the Faculty may in special cases and subject to such conditions (if any) as it may seem fit to impose in each case, accept as a candidate for the Master of Nurse Practitioner a person who does not qualify for admission to the academic program under (2.1) above, but has given evidence satisfactory to the Faculty of fitness to undertake work for the Master of Nurse Practitioner.

## 3 Assessment and Examinations

3.1 There shall be four classes of pass in each course for the Master of Nurse Practitioner: pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

- 3.2 a A candidate who fails to pass in the 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, unless specifically exempted there from after written application to the Registrar for such exemption.
- b A candidate who has twice failed the examination in any course or division of a course may not enrol for the course again except by special permission to be obtained in writing from the Registrar and then only under such conditions as may be prescribed.

- c For the purpose of this Rule a candidate who is refused permission to sit for examination, or who, without a reason accepted by the Head of the Discipline of Nursing as adequate, fails to attend all or part of a final examination (or supplementary examination if granted) after remaining enrolled for at least 9 teaching weeks that semester, shall be deemed to have failed the examination.

## 4 Qualification requirements

4.1 Unless exempted there from by the Faculty every candidate for the Master of Nurse Practitioner shall:

- a satisfactorily complete the Stage I requirements by qualifying for the award of Graduate Diploma in Nursing Science or a Graduate Diploma in a nursing specialty offered by the Discipline of Nursing or for a Graduate Diploma in a nursing specialty of another university accepted for the purposes by the University.
- b satisfactorily complete the requirements of 4.1.2 and 4.1.3 below, or 4.1.2 and 4.1.4 below.

4.1.1 To complete the core courses Extended Clinical Practice I and Extended Clinical Practice II continuing employment at a minimum fraction of 0.6 FTE in an area that supports active candidature as a nurse practitioner is required.

If the student changes their employment status and can no longer meet the requirement above for continuing employment they may transfer to the Master of Nursing Science.

### 4.1.2 Core Courses

All candidates shall complete the following Nursing core courses:

Extended Clinical Practice I .....	3
Extended Clinical Practice II .....	3

NURSING 7015HO Applied Pharmacology in Nursing.....	3
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All candidates shall complete one of the following core courses:

NURSING 7001HO Empirical/Analytical Research in Nursing.....	3
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NURSING 7002HO Interpretive and Critical Research in Nursing .....	3
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And one of the following options

### 4.1.3 Option 1: Dissertation

NURSING 7005HO Research Dissertation A .....	12
<i>or</i>	

NURSING 7006HO Research Dissertation A (Stage 1) .....	6
--	---

and

NURSING 7007HO Research Dissertation A  
(Stage 2) ..... 6

**4.1.4 Option 2: Coursework**

NURSING 7013HO Critical Review Project ..... 6  
NURSING 7012HO Systematic and Critical  
Reviews of Research..... 3  
and one of the following:  
NURSING 7003HO International Issues in Nursing  
Service Delivery ..... 3  
NURSING 7004HO The Emergence  
of a Theoretical Base for Nursing ..... 3  
NURSING 7011HO Clinical Management ..... 3  
NURSING 7001HO Empirical/Analytical Research  
in Nursing..... 3  
NURSING 7002HO Interpretive and Critical  
Research in Nursing ..... 3

**4.2 Unacceptable combinations of courses**

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

**4.3 Graduation**

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

**5 Special circumstances**

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

## **Graduate Attributes**

### Master of Nurse Practitioner

Graduates of the Master of Nurse Practitioner will be distinguished by the following attributes:

- Knowledge and understanding of the role of a nurse practitioner
- Extended clinical expertise and skills for expanded service delivery
- A sound knowledge of a broad range of research methodologies and methods
- The ability to design and conduct a research project in a rigorous and ethical manner
- The skills to critically evaluate research and make informed decisions for practice change when appropriate
- The ability to work as an effective member of a research team
- A basic understanding of the philosophical basis of nursing research
- The ability to identify and describe the major theoretical perspectives that inform nursing practice
- Being a critical and informed thinker regarding issues related to nursing and health
- The ability to communicate effectively using a range of mediums.

## 1 Duration of program

To qualify for the Master of Nursing Science a candidate shall satisfactorily complete a program of full-time study extending over one year or a program of part-time study extending over at least two years.

## 2 Admission

2.1 An applicant for admission to the program for the Master of Nursing Science shall:

- a have qualified for a Graduate Diploma in Nursing Science (Stage 1) of the University or for a Graduate Diploma in Nursing from another university accepted for the purposes by the University or have completed the equivalent of four years tertiary study in nursing from another university for the purposes by the University *and*
- b have at least two years post registration experience as a registered nurse *and*
- c be registered, or be eligible for registration, as a nurse *and*
- d have obtained the approval of the Discipline of Nursing.

2.2 Subject to the approval of Council, the Faculty may in special cases and subject to such conditions (if any) as it may seem fit to impose in each case, accept as a candidate for the Master of Nursing Science, a person who does not qualify for admission to the program under (2.1) above, but has given evidence satisfactory to the Faculty of fitness to undertake work for the Master of Nursing Science.

## 3 Assessment and examinations

3.1 There shall be four classes of pass in each course for the Master of Nursing Science: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

- 3.2 a A candidate who fails to pass in the 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, unless specifically exempted therefrom after written application for such exemption.
- b A candidate who has twice failed the examination in any course or division of a course may not enrol for the course again except by special permission to be obtained in writing from the Manager, Academic Programs, and then only under such conditions as may be prescribed.

- c For the purpose of this Rule a candidate who is refused permission to sit for examination, or who, without a reason accepted by the Head of the Discipline of Nursing as adequate, fails to attend all or part of a final examination (or supplementary examination if granted) after remaining enrolled for at least 9 teaching weeks that semester, shall be deemed to have failed the examination.

## 4 Qualification requirements

4.1 Unless exempted therefrom by the Faculty every candidate for the Master of Nursing Science shall:

- a satisfactorily complete the Stage I requirements by qualifying for the award of the Graduate Diploma in Nursing Science or a Graduate Diploma in a nursing specialty offered by the Discipline of Nursing *or*  
satisfactorily complete a program of study to the value of 24 units, approved by the Discipline of Nursing, selected from a range of courses offered by the Department.
- b satisfactorily complete the requirements of 4.1.1 and 4.1.2 or 4.1.3 or 4.1.4 below.

### 4.1.1 Core courses

All candidates shall complete the following core courses:

NURSING 7001HO Empirical/Analytical Research .....	3
NURSING 7002HO Interpretative & Critical Research .....	3

### 4.1.2 Dissertation

All candidates shall complete either:

NURSING 7008HO Research Dissertation B Stage 1 .....	6
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*and*

NURSING 7016HO Research Dissertation B Stage 2.....	12
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*or*

NURSING 7008AHO Research Dissertation B Part 1.....	6
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*and*

NURSING 7008HO Research Dissertation B Stage 1.....	6
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*and*

NURSING 7010HO Research Dissertation (Part-time) Final .....	6
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#### 4.1.3 Dissertation and Electives

NURSING 7005HO Research Dissertation A ..... 12  
*or*

NURSING 7006HO Research Dissertation A  
(Stage 1)..... 6

*and*

NURSING 7007HO Research Dissertation A  
(Stage 2)..... 6

*and*

two courses from the following:

NURSING 7003HO International Issues in  
Nursing Service Delivery ..... 3

NURSING 7004HO The Emergence of a  
Theoretical Base for Nursing..... 3

NURSING 7011HO Clinical Management ..... 3

NURSING 7012HO Systematic and Critical  
Reviews of the Research..... 3

NURSING 7014HO Advanced Health  
Assessment ..... 3

NURSING 7015HO Applied Pharmacology  
in Nursing..... 3

#### 4.1.4 Coursework

Choose courses to the value of 18 units from the following:

NURSING 7003HO International Issues in  
Nursing Service Delivery ..... 3

NURSING 7004HO The Emergence of  
a Theoretical Base for Nursing..... 3

NURSING 7011HO Clinical Management ..... 3

NURSING 7012HO Systematic and Critical  
Reviews of the Research..... 3

NURSING 7013HO Critical Review Project ..... 6

NURSING 7014HO Advanced Health  
Assessment ..... 3

NURSING 7015HO Applied Pharmacology  
in Nursing..... 3

#### 4.2 Unacceptable combinations of courses

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

#### 4.3 Graduation

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

## 5 Special circumstances

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



## **Graduate Attributes**

### Master of Nursing Science

Graduates of the Graduate Certificate in Nursing Science will be distinguished by the following attributes:

- A sound knowledge of a broad range of research methodologies and methods
- The ability to design and conduct a research project in a rigorous and ethical manner
- The skills to critically evaluate research and make informed decisions for practice change when appropriate
- The ability to work as an effective member of a research team
- A basic understanding of the philosophical basis of nursing research
- The ability to identify and describe the major theoretical perspectives that inform nursing practice
- Being a critical and informed thinker regarding issues related to nursing and health
- The ability to communicate effectively using a range of mediums.

## 1 Duration of program

To qualify for the degree, a candidate shall satisfactorily complete a course of study comprising three semesters of full-time study or the equivalent of part-time study.

## 2 Admission

- 2.1 An applicant for admission to the program of study for the degree of Master of Occupational Health & Safety shall:
- have qualified for an Honours degree of the University in an appropriate field of study, or a degree of another institution accepted by the Faculty for the purpose as equivalent to an Honours degree of the University
  - have qualified for the Graduate Diploma in Occupational Health and Safety Management with a minimum grade of at least Pass Division I in all courses *or*
  - have qualified for a Bachelor degree of the University of Adelaide in an appropriate field of study, or a degree of another institution accepted by the Faculty for the purpose as equivalent, plus have at least two years' approved relevant practical experience.
- 2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the degree a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the degree.
- ### 2.3 Status, exemption and credit transfer
- 2.3.1 Except with special permission of the Faculty, no candidate will be granted status for any course that he or she has presented for any award other than the Graduate Certificate or Graduate Diploma in Occupational Health and Safety Management (see Rule 2.4 below).
- 2.3.2 Subject to the following clause, no candidate will be awarded more than 12 units of status.
- 2.3.3 Candidates who have completed the Graduate Diploma in Occupational Health and Safety Management or the Graduate Diploma in Occupational Health and Safety Management formerly offered by the University of South Australia, the Graduate Diploma in Occupational Health formerly offered by this University, or an equivalent award from another institution, may be granted exemption from all courses (other than the OHS Research Thesis) if in the opinion of the Faculty their studies are equivalent to the admission requirements set out in Rule 2.1 (b).

- 2.3.4 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially therefrom by the Head of Discipline concerned, again complete the required work in the course to the satisfaction of the teaching staff concerned.

## 2.4 Articulation with other awards

- 2.4.1 A candidate for the Master of Occupational Health and Safety who does not complete the requirements for the Masters degree but satisfies the requirements for the Graduate Certificate or Graduate Diploma may be admitted to one or other of those degrees as appropriate.
- 2.4.2 A candidate who has been admitted to the Graduate Diploma in Occupational Health and Safety Management and who subsequently satisfies the requirements for the Master of Occupational Health and Safety must surrender the Graduate Diploma before being admitted to the Master degree.

## 3 Assessment and examinations

- 3.1 There shall be four classifications of pass in any course for the Masters degree: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass. Further a pass will be recorded in two divisions, with a Pass Division I being higher than a Pass Division II.
- To complete this award a candidate will be required to obtain an average mark of at least Credit standard in all courses except for the Research Thesis.
- 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.
  - For the purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.
- 3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the degree, a candidate shall satisfactorily complete courses to the value of 36 units, as follows - with the proviso that at least half of the coursework is completed at the University of Adelaide:

#### 4.1.1 Core courses

All candidates shall complete the following core courses:

PUB HLTH 7031HO Occupational Hygiene and Ergonomics*	3
OH&S 7105HO Diseases of Occupation*	3
OH&S 7131HO Occupational Safety & Statistics +	3
OH&S 7132HO OHS Law and Risk Management <sup>+</sup>	3

#### 4.1.2 Elective courses

All candidates shall complete 24 units selected from the following elective courses:

OH&S 7014HO Occupational & Environmental Health Studies	3
OH&S 7080 Occupational Health & Safety Practicum*	6
OH&S 7114HO National Short Course in Environmental Health*	3
OH&S 7133HO Advanced Ergonomics <sup>+</sup>	3
OH&S 7134HO Advanced Occupational Hygiene*	3
OH&S 7135HO Advanced OHS Management <sup>+</sup>	3
OH&S 7136HO Occupational Safety**	3
OH&S 7137HO Occupational Toxicology*	3
OH&S 7138HO OHS Management and Law IIG <sup>+</sup>	3
OH&S 7139HO OHS Research Methods #	3
OH&S 7141HO Practical Occupational Health*	3
PUB HLTH 7140HO OHSM Dissertation #	6

or other courses offered by this University or other universities which the Faculty approves for presentation in lieu of elective courses listed above to the value of 6 units.

#### 4.1.3 Research project

Candidates may complete the following research course in lieu of 12 units in 4.1.2, provided that OH&S 7139HO OHS Research Methods, or equivalent, is completed prior to commencement:

OH&S 7142HO OHS Research Thesis #	12
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\* offered by the University of Adelaide

+ offered by the University of South Australia

# offered by either university

#### 4.2 Unacceptable combinations of courses

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

#### 4.3 Graduation

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

### 5 Special circumstances

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



## 1 General

- 1.1 This document must be read in conjunction with:
- the General Academic Program Rules for Master by Research Programs (see under Adelaide Graduate Centre, p.18) *and*
  - the Research Student Handbook, published by the Adelaide Graduate Centre.

These documents explain procedures to be followed and contain guidelines on supervision and research for the degree of Doctor of Philosophy and the various Masters Degrees by Research offered by the University.

All students must comply with both the General Academic Rules and the rules following below, and procedures outlined in the Research Student Handbook.

In addition to the General Academic Program Rules for Masters by Research degrees, in this publication, the following discipline-specific rules apply.

## 2 Admission

- 2.1 Further to Rule 4.1 to 4.4 of the General Academic Program Rules, the Research Education and Development Committee will not accept as a candidate anyone who has not previously been awarded the MBBS (or equivalent) or an Honours degree in medical science.

## 1 Duration of program

- 1.1 Except with the permission of the Faculty, the courses of study and the dissertation shall be completed in not more than two years of full-time study or four years of part-time study.
- 1.2 A student whose work on the program is interrupted for a reason acceptable to the Executive Dean may be granted an intermission of candidature by the Head of School of Psychology on behalf of the Faculty. If such an application is approved the maximum period specified in clause 1.1 will be adjusted accordingly by adding the length of the intermission.

## 2 Admission

- 2.1 An applicant for admission to the program of study for the degree of Master of Psychology (Clinical) shall have qualified for an Honours degree of Bachelor, with Honours in Psychology, of the University of Adelaide or for an Honours degree of another institution accepted for the purpose by the University (minimum of Second Class, Division A Honours).

## 2.2 Status, exemption and credit transfer

- 2.2.1 The Faculty may grant such status for other studies undertaken in the University or other institutions in any course as it may determine up to a maximum of 8 units, provided that any such course has not been presented for another degree.
- 2.2.2 Except by the special permission of the Head of the School of Psychology, no student may gain status for the course PSYCHOL 7116A/B PSYCHOL Research Project in Clinical Psychology for other studies undertaken in the University or other institutions.

## 3 Assessment and examinations

- 3.1 There shall be one of two systems of classification of pass in individual courses for the Masters degree: either Satisfactory; or Pass with High Distinction, Pass with Distinction, Pass with Credit, and Pass.
- 3.2 On completion of the Research Project the student shall lodge with the School a copy of the dissertation prepared in accordance with directions given to students from time to time. No dissertation or material presented for any other degree within this or any other institution shall be submitted.
- 3.3 Two examiners of the Research Project will be appointed by the Head of School. Both examiners will normally be internal to the School but not include the student's supervisor.

## 3.4 Academic progress

- 3.4.1 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.
- 3.4.2 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 Faculty and then only under such conditions as may be prescribed.  
  
Attendance is required for at least 80% of the sessions in any compulsory course. A student who fails this requirement will not be eligible for examination unless there are extenuating circumstances.
- 3.4.3 For the purposes of this clause a student who is refused permission to be assessed, by examination or otherwise, or who does not, without a reason accepted by the Head of the School of Psychology 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 course.
- 3.4.4 If in the opinion of the Head of the School of Psychology a student for the degree is not making satisfactory progress, the Faculty may, with the consent of the Council, terminate the candidature and the student shall cease to be enrolled for the degree.

## 4 Qualification requirements

- 4.1 Unless exempted by the Faculty all students will satisfactorily complete Compulsory Courses to the value of 16 units, plus two 2-unit electives, three eighteen week periods (of 5 half-days per week or equivalent) of placement in different institutions or organisations offering psychological services approved by the Head of the School of Psychology, and a Research Dissertation.
- 4.2 In the normal pattern of study, students enrolled on a full-time basis will complete the courses:  
PSYCHOL 7101 A/B  
PSYCHOL 7102  
PSYCHOL 7103  
PSYCHOL 7104  
PSYCHOL 7105  
PSYCHOL 7107  
PSYCHOL 7108  
*and*

choose two from the following three:

PSYCHOL 7106

PSYCHOL 7109

PSYCHOL 7110 *and*

one placement:

PSYCHOL 7111

during first year. They should also do preliminary work on their research project although they will not enrol formally until second year.

During second year they will complete, two further placements:

PSYCHOL 7112

PSYCHOL 7113

and the research project:

PSYCHOL 7116A/B.

Students may wish to consider linking the research project to one of the placements. For the normal.

#### 4.3 Academic program

Unless exempted by the Faculty of Health Sciences, every student for the degree shall satisfactorily complete the following three components:

##### 4.3.1 Coursework courses

All students shall complete the following compulsory courses:

PSYCHOL 7101 A/B Adult Clinical Psychology .....4

PSYCHOL 7102 Applied Methodology.....2

PSYCHOL 7103 Child Clinical Psychology .....2

PSYCHOL 7104 Clinical Neuropsychology.....2

PSYCHOL 7105 Preparation for Psychological Practice II .....2

PSYCHOL 7107 Preparation for Psychological Practice I .....2

PSYCHOL 7108 Psychological Assessment .....2

##### 4.3.2 Elective courses

PSYCHOL 7106 Health Psychology.....2

PSYCHOL 7109 Clinical Geropsychology.....2

PSYCHOL 7110 Rehabilitation and Disability.....2

##### 4.3.3 Placements

Three placements, as follows:

PSYCHOL 7111 Placement I.....4

PSYCHOL 7112 Placement II.....4

PSYCHOL 7113 Placement III.....4

##### 4.3.4 Research project

PSYCHOL 7116A Research Project  
in Clinical Psychology .....8

PSYCHOL 7116B Research Project  
in Clinical Psychology .....8

#### 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 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

### Master of Psychology (Clinical)

The aim of this program is to provide graduates with the tertiary-level education required to be eligible for registration as a Clinical Psychologist.

- A broad general knowledge, together with specialised understanding in the discipline of Clinical Psychology
- An appreciation of their potential contribution to knowledge through the traditions and innovations of the field of Clinical Psychology
- Specialised knowledge of the effective and ethical practice of the profession of Clinical Psychology, appropriate for registration to practise as a Psychologist in Australia and, sometimes with minor extensions, internationally
- The skills and discipline to research, synthesise, organise and present information, using a range of technologies appropriate to the discipline of Psychology
- Analytical and critical skills
- The ability to argue from evidence
- Problem solving skills
- The ability to set appropriate goals and to work both independently and cooperatively as appropriate
- The ability to communicate effectively
- An understanding of the importance of lifelong learning and continuing professional development
- An awareness of their potential leadership roles in the community of scholars and in the Mental Health professions
- Excellence in professional skills to deliver effective services in Clinical Psychology, as outlined in Guidelines and Competency Statements by the College of Clinical Psychologists of the Australian Psychological Society
- An understanding of ethical issues in both intellectual and professional contexts
- An awareness of social justice issues, particularly in the practice of Clinical Psychology.



## 1 Duration of program

- 1.1 Except with the permission of the Faculty, the courses of study and the dissertation shall be completed in not more than two years of full-time study or four years of part-time study.
- 1.2 A student whose work on the program is interrupted for a reason acceptable to the Executive Dean may be granted an intermission of candidature by the Head of School of Psychology on behalf of the Faculty. If such an application is approved the maximum period specified in clause 1.1 will be adjusted accordingly by adding the length of the intermission.

## 2 Admission

- 2.1 An applicant for admission to the program of study for the degree of Master of Psychology (Health) shall have qualified for an Honours degree of Bachelor, with Honours in Psychology, of the University of Adelaide or for an Honours degree of another institution accepted for the purpose by the University (minimum of Second Class, Division A Honours).

## 2.2 Status, exemption and credit transfer

- 2.2.1 The Faculty may grant such status for other studies undertaken in the University or other institutions in any course as it may determine up to a maximum of 8 units, provided that any such course has not been presented for another degree.
- 2.2.2 Except by the special permission of the Head of the School of Psychology, no student may gain status for the courses PSYCHOL 7314A/B for other studies undertaken in the University or other institutions.

## 3 Assessment and examinations

- 3.1 There shall be one of two systems of classification of pass in individual courses for the Masters degree: either Satisfactory; or Pass with High Distinction, Pass with Distinction, Pass with Credit, and Pass.
- 3.2 On completion of the Research Project the student shall lodge with the School a copy of the dissertation prepared in accordance with directions given to students from time to time. No dissertation or material presented for any other degree within this or any other institution shall be submitted.
- 3.3 Two examiners of the Research Project will be appointed by the Head of School. Both examiners will normally be internal to the School but not include the student's supervisor.

## 3.4 Academic progress

- 3.4.1 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.
- 3.4.2 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 Faculty and then only under such conditions as may be prescribed. Attendance is required for at least 80% of the sessions in any compulsory course. A student who fails this requirement will not be eligible for examination unless there are extenuating circumstances.
- 3.4.3 For the purposes of this clause a student who is refused permission to be assessed, by examination or otherwise, or who does not, without a reason accepted by the Head of the School of Psychology 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 course.
- 3.4.4 If in the opinion of the Head of the School of Psychology a student for the degree is not making satisfactory progress, the Faculty may, with the consent of the Council, terminate the candidature and the student shall cease to be enrolled for the degree.

## 4 Qualification requirements

- 4.1 Unless exempted by the Faculty all students will satisfactorily complete Compulsory Courses to the value of 16 units, plus one 2-unit elective, Three eighteen week periods (of 5 half-days per week or equivalent) of placement in different institutions or organisations offering psychological services approved by the Head of the School of Psychology, and a Research Dissertation.
- 4.2 In the normal pattern of study, students enrolled on a full-time basis will complete the courses:  
PSYCHOL 7101  
PSYCHOL 7102  
PSYCHOL 7107  
PSYCHOL 7108  
PUBHLTH 7075  
PUBHLTH 7076  
PSYCHOL 7306  
*and*



choose one of the following:

PSYCHOL 7103  
PSYCHOL 7109  
PSYCHOL 7110 *and*

one placement:

PSYCHOL 7311

during first year. They should also do preliminary work on their research project although they will not enrol formally until second year.

During second year they will complete two further placements:

PSYCHOL 7312

PSYCHOL 7313

and the research project:

PSYCHOL 7314A/B

Students may wish to consider linking the research project to one of the placements. For the normal pattern of study for students enrolled on a part-time basis, see the program handbook.

### 4.3 Academic program

Unless exempted from by the Faculty of Health Sciences, every student for the degree shall satisfactorily complete the following three components:

#### 4.3.1 Coursework courses

All students shall complete the following compulsory courses:

PSYCHOL 7101A/B Adult Clinical Psychology .....	4
PSYCHOL 7102 Applied Methodology .....	2
PSYCHOL 7107 Preparation for Psychological Practice I .....	2
PSYCHOL 7108 Psychological Assessment .....	2
PUB HLTH 7075 Introduction to Epidemiology.....	3
PUB HLTH 7076 Public Health Interventions .....	3
PSYCHOL 7306 Health Psychology (Health).....	2

#### 4.3.2 Elective courses

PSYCHOL 7103 Child Clinical Psychology .....	2
PSYCHOL 7109 Clinical Geropsychology.....	2
PSYCHOL 7110 Rehabilitation and Disability.....	2

#### 4.3.3 Placements

Three placements, as follows:

PSYCHOL 7311 Placement I.....	4
PSYCHOL 7312 Placement II.....	4
PSYCHOL 7313 Placement III .....	4

#### 4.3.4 Research project

PSYCHOL 7314A Research Project in Health Psychology .....	8
PSYCHOL 7314B Research Project in Health Psychology .....	8

### 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 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**

### Master of Psychology (Health)

- An appreciation of their potential contribution to knowledge through the traditions and innovations of the field of Health Psychology
- Specialised knowledge of the effective and ethical practice of the profession of Health Psychology, appropriate for registration to practice as a psychologist in Australia and sometimes, with minor extensions, internationally
- The skills and discipline to research, synthesise, organise and present information, using a range of technologies appropriate to the discipline of Psychology
- Analytical and critical skills
- The ability to argue from evidence
- Problem solving skills
- The ability to set appropriate goals and to work both independently and cooperatively as appropriate
- The ability to communicate effectively
- An understanding of the importance of lifelong learning and continuing professional development,
- An awareness of their potential leadership roles in the community of scholars and in the Mental Health professions
- Excellence in professional skills to deliver effective services in Health Psychology, as outlined in Guidelines and Competency Statements by the College of Health Psychologists of the Australian Psychological Society
- An understanding of ethical issues in both intellectual and professional contexts
- An awareness of social justice issues, particularly in the practice of Health Psychology.

## 1 Duration of program

- 1.1 Except with the permission of the Faculty, the courses of study and the dissertation shall be completed in not more than two years of full-time study or four years of part-time study.
- 1.2 A student whose work in the program is interrupted for a reason acceptable to the Head of the School of Psychology may be granted an intermission of candidature by the Head on behalf of the Faculty. If such an application is approved the maximum period specified in clause 1.1 will be adjusted accordingly by adding the length of the intermission.

## 2 Admission

- 2.1 An applicant for admission to the program of study for the degree of Master of Psychology (Organisational and Human Factors) shall have qualified for an Honours degree of Bachelor, with Honours in Psychology, of Adelaide University or for an Honours degree of another institution accepted for the purpose by the University (minimum of Second Class, Division A Honours).
- 2.2 **Status, exemption and credit transfer**
  - 2.2.1 The Faculty may grant such status for other studies under-taken in the University or other institutions in any course as it may determine up to a maximum of 8 units, provided that any such course has not been presented for another degree.
  - 2.2.2 Except by the special permission of the Head of the School of Psychology, no student may gain status for the courses PSYCHOL 7225 A/B Research Project in Organisational Psychology and Human Factors for other studies undertaken in the University or other institutions.

## 3 Assessment and examinations

- 3.1 There shall be one of two systems of classification of pass in individual courses for the Masters degree: either Satisfactory; or Pass with High Distinction, Pass with Distinction, Pass with Credit, and Pass.
- 3.2 On completion of the Research Project the student shall lodge with the School a copy of the dissertation prepared in accordance with directions given to students from time to time. No dissertation or material presented for any other degree within this or any other institution shall be submitted.
- 3.3 Two examiners of the Research Project will be appointed by the Head of School. Both examiners will normally be internal to the Discipline but not include the student's supervisor.

## 3.4 Academic progress

- 3.4.1 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.
- 3.4.2 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 Faculty and then only under such conditions as may be prescribed. Attendance is required for at least 80% of the sessions in any compulsory course. A student who fails this requirement will not be eligible for examination unless there are extenuating circumstances.
- 3.4.3 For the purposes of this clause a student who is refused permission to be assessed, by examination or otherwise, or who does not, without a reason accepted by the Head of the School of Psychology as adequate, attend all or part of a final examination 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 course.
- 3.4.4 If in the opinion of the Head of the School of Psychology a student for the degree is not making satisfactory progress, the Faculty may, with the consent of the Council, terminate the candidature and the student shall cease to be enrolled for the degree.

## 4 Qualification requirements

- 4.1 Unless exempted therefrom by the Faculty, all students will satisfactorily complete Compulsory Courses to the value of 20 units, three 18-week periods (of 5 half-days per week or equivalent) of placement in different institutions or organisations offering psychological services approved by the Head of the School of Psychology, and a Research Dissertation.
- 4.2 In the normal pattern of study, students enrolled on a full-time basis will complete the courses:  
PSYCHOL 7110  
PSYCHOL 7201  
PSYCHOL 7202  
PSYCHOL 7207  
PSYCHOL 7209  
PSYCHOL 7210  
PSYCHOL 7211  
PSYCHOL 7212  
PSYCHOL 7213

and one placement:

PSYCHOL 7221

during first year. They should also do preliminary work on their research project although they will not enrol formally until second year.

During second year they will complete two further placements:

PSYCHOL 7222

PSYCHOL 7223

and the research project:

PSYCHOL 7225 A/B.

Students may wish to consider linking the research project to one of the placements.

#### 4.3 Program of study

Unless exempted therefrom by the Faculty of Health Sciences, every student for the degree shall satisfactorily complete the following three components:

##### 4.3.1 Coursework courses

All students shall complete the following compulsory courses:

PSYCHOL 7110 Rehabilitation and Disability.....	2
PSYCHOL 7201 Applied Methodology and Statistics .....	2
PSYCHOL 7202 Applied Perceptual and Cognitive Psychology .....	2
PSYCHOL 7206 Human Factors/Ergonomics.....	2
PSYCHOL 7207 Human Resource Management ..	2
PSYCHOL 7209 Organisational Behaviour and Management .....	2
PSYCHOL 7210 Professional & Ethical Practice....	2
PSYCHOL 7211 Psychological Assessment: Recruitment and Personnel Appraisal.....	2
PSYCHOL 7212 Advanced Organisational Psychology.....	2
PSYCHOL 7213 Optimising Performance in Organisations.....	2

##### 4.3.2 Placements

Three placements, as follows:

PSYCHOL 7221 Placement I.....	4
PSYCHOL 7222 Placement II.....	4
PSYCHOL 7223 Placement III.....	4

##### 4.3.3 Research Project

PSYCHOL 7225A Research Project in Organisational Psychology & Human Factors.....	8
PSYCHOL 7225B Research Project in Organisational Psychology & Human Factors.....	8

#### 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 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

### Master of Psychology (Organisational and Human Factors)

The aim of this program is to provide graduates with the tertiary-level education required to be eligible for registration as an Organisational Psychologist with additional skills in the area of human factors. Graduates will display the following attributes:

- A broad general knowledge of psychology together with a specialised understanding in the areas of Organisational Psychology and Human Factors
- An appreciation of their potential contribution to knowledge through the traditions and innovations of the fields of Organisational Psychology and Human Factors
- Specialised knowledge of the effective and ethical practice of the profession of Organisational Psychology, appropriate for registration to practise as a Psychologist in Australia and internationally.
- The skills and discipline to research, synthesise, organise and present information using a range of technologies
- Analytical and critical skills in statistics, computing, applied methodology and problem solving
- The ability to argue from evidence and communicate effectively in technical reports, essays, and in oral presentations
- The ability to set appropriate goals and to work both independently and cooperatively
- Practical knowledge and experience of professional work environments and their interpersonal interactions and organisational structures
- The ability to show creativity and initiative in the development of independent research and the application of psychological knowledge in organisational contexts
- Appreciation of the opportunities for research, consultancy and commercialisation in the area of organisational psychology
- An understanding of the importance of lifelong learning and continuing professional development
- An awareness of the role of organisational psychologists in leadership roles both in the community of scholars as well as in the business community
- The ability to deliver high level skills consistent with the Guidelines and Competency Statements of the College of Organisational Psychologists of the Australian Psychological Society
- An understanding of ethical and social justice issues, particularly in the areas of employment and management.



# Master of Public Health

## 1 Duration of program

To qualify for the degree, a candidate shall satisfactorily complete a course of study comprising three semesters of full-time study or the equivalent of part-time study.

## 2 Admission

2.1 An applicant for admission to the academic program for the Master of Public Health shall have qualified for a degree of the University or a degree of another institution accepted by the Faculty for the purpose as equivalent to a degree of the University.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the Masters degree a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the Graduate Certificate.

## 2.3 Status, exemption and credit transfer

2.3.1 Except with special permission of the Faculty, no candidate will be granted status for any course that he or she has presented for any other award (see Rule 2.5 below).

2.3.2 In any case, no candidate will be awarded more than 12 units of status, except for those candidates who have completed the Graduate Diploma in Public Health.

2.3.3 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially therefrom by the Head of Discipline concerned, again complete the required work in the course to the satisfaction of the teaching staff concerned.

## 2.4 Articulation with other awards

2.4.1 A candidate for the Master of Public Health who does not complete the requirements for the Masters degree but satisfies the requirements for the Graduate Certificate or Graduate Diploma may be admitted to one or other of those awards as appropriate.

2.4.2 A candidate who has been admitted to the Graduate Diploma in Public Health or the Graduate Certificate in Public Health and who subsequently satisfies the requirements for the Master of Public Health must surrender the Graduate Diploma or Graduate Certificate respectively before being admitted to the Master degree.

## 3 Assessment and examination

3.1 There shall be four classifications of pass in any course for the Masters degree: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

- 3.2 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 purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the degree, a candidate shall satisfactorily complete courses to the value of 36 units, as follows:

#### 4.1.1 Core courses

All candidates shall complete the following core courses:

PUB HLTH 7073 Indigenous Health .....	3
PUB HLTH 7074 Introduction to Biostatistics.....	3
PUB HLTH 7075 Introduction to Epidemiology.....	3
PUB HLTH 7076 Health Policy and Public Health Interventions .....	3
PUB HLTH 7078 Social Science Research Methods for Public Health.....	3
PUB HLTH 7081 Health Economics .....	3

#### 4.1.2 Elective courses

All candidates shall complete 18 units selected from the following elective courses:

DENT 7150HO Dental Public Health .....	3
PUB HLTH 7031HO Occupational Hygiene and Ergonomics.....	3
PUB HLTH 7077 Public Health Practicum .....	6
PUB HLTH 7082 Advanced Health Economic Evaluation and Decision Making .....	3
PUB HLTH 7104HO Biostatistics.....	3
PUB HLTH 7105HO Diseases of Occupation.....	3
PUB HLTH 7106HO Epidemiological Research Methods.....	3
PUB HLTH 7107HO Epidemiology of Infectious Diseases .....	3
PUB HLTH 7108HO Public Health Ethics .....	3
PUB HLTH 7111HO Industrial Toxicology .....	3
PUB HLTH 7113HO Introduction to Environmental and Occupational Health .....	3
PUB HLTH7115HO Public Health Law .....	3

PUB HLTH 7118HO Public Health Studies .....	3
PUB HLTH 7147HO Health Technology Assessment .....	3

Or other courses offered by this University or other universities which the Faculty approves for presentation in lieu of elective courses listed above to the value of 6 units.

#### 4.1.3 **Dissertation**

Candidates may complete the following research course in lieu of 12 units in 4.1.2:

PUB HLTH 7119HO MPH Dissertation (full-time) .....	12
PUB HLTH 7120HO MPH Dissertation (part-time) .....	12

#### 4.2 **Unacceptable combinations of courses**

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

#### 4.3 **Graduation**

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

### 5 **Special circumstances**

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



# Master of Science in Addiction Studies

## 1 Duration of program

To qualify for the degree, a candidate shall satisfactorily complete a course of study comprising at least three semesters of full-time study completed over one year.

## 2 Admission

2.1 An applicant for admission to the academic program for the degree of Master of Science in Addiction Studies shall:

- a have qualified for an Honours degree of the University in an appropriate field of study, or a degree of another institution accepted by the Faculty for the purpose as equivalent to an Honours degree of the University *or*
- b have qualified for the Graduate Diploma in Alcohol and Drug Studies with results at credit level or higher *or*
- c have qualified for a Professional Bachelor degree of the University in an appropriate field of study or an equivalent degree of another institution *or*
- d have qualified for a Bachelor degree of the University in an appropriate field of study, or a degree of another institution accepted by the Faculty for the purpose as equivalent, plus have at least five years' approved professional work experience.

## 2.2 Status, exemption and credit transfer

2.2.1 Except with special permission of the Faculty of all three universities, no candidate will be granted status for any course that he or she has presented for any other award.

2.2.2 Such status as may be awarded in exceptional circumstances will only be awarded for graduate level studies.

2.2.3 In any case, no candidate will be awarded more than 12 units of status.

2.2.4 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially therefrom by the Head of Discipline concerned, again complete the required work in the course to the satisfaction of the teaching staff concerned.

## 3 Enrolment

This program is offered by distance education. Each student will enrol through the University of Adelaide, but will be deemed to have enrolled at all three institutions: University of Adelaide, Virginia Commonwealth University and King's College, London.

The program commences in August each year and is offered over three consecutive semesters so that it can be completed within a 12 month period.

## 4 Assessment and Examinations

4.1 There shall be four classifications of pass in any course for the Masters degree: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

4.2 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 purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

4.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 5 Qualifications requirements

### 5.1 Academic program

To qualify for the degree, a candidate shall satisfactorily complete core courses to the value of 36 units, as follows:

PHARM 7015 EX Introduction to Addiction .....	4
PHARM 7016EX Public Health Issues and Approaches to Addiction.....	4
PHARM 7017EX Treatment of Addiction: Pharmacotherapies.....	4
PHARM 7018EX Treatment of Addiction: Psychosocial Interventions .....	4
PHARM 7019EX Treatment of Addiction: Critical Issues .....	4
PHARM 7020EX Addiction Policies.....	4
PHARM 7021EX Research Methodology in Addictions .....	6
PHARM 7022EX Research Project in Addictions .....	6

### 5.2 Graduation

Candidates who have completed the requirements for the program shall graduate with a single degree jointly awarded by the University of Adelaide, Virginia Commonwealth University and King's College, London.

## 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**

### Master of Science in Addiction Studies

Graduates of the Master of Science in Addiction Studies will be distinguished by the following attributes:

- An advanced level of knowledge of:
  - the science of addiction
  - contemporary clinical practice in addiction treatment
  - approaches to prevention of addiction problems
  - comparative international addiction policy
- An ability to interpret research findings in a range of discipline areas of relevance to addiction
- An ability to implement contemporary research on addiction treatment and prevention through program management
- An ability to translate research on addiction into effective policy at the local, national and international levels.



## 1 General

1.1 This document must be read in conjunction with:

- a the General Academic Program Rules for Master by Research Programs (see under Adelaide Graduate Centre, p.18) *and*
- b the Research Student Handbook, published by the Adelaide Graduate Centre.

These documents explain procedures to be followed and contain guidelines on supervision and research for the degree of Doctor of Philosophy and the various Masters Degrees by Research, offered by the University.

All students must comply with both the General Academic Rules and the rules following below, and procedures outlined in the Research Student Handbook.

In addition to the General Academic Program Rules for Masters by Research degrees, in this publication, the following discipline specific rules apply.

## 2 Admission

2.1 The Research Education and Development Committee may accept as a candidate for the degree any person who:

- a has qualified in the University of Adelaide for the degree of Bachelor of Dental Surgery and for the Honours Degree of Bachelor of Science in Dentistry with First or Second Class Honours
- b has qualified for a degree in Dentistry and whose qualifications are regarded by the Committee as equivalent to those specified in 2.1(a) *or*
- c has qualified for a degree or degrees other than in Dentistry which the Committee regards as equivalent to the qualifications specified in 2.1(a).

2.2 In addition to Rules 4.1 - 4.5 of the General Academic Program Rules and Rule 1 above, it is a condition of enrolment and continuing enrolment in all undergraduate programs and all clinical postgraduate programs in the School of Dentistry, that students abide by the following policy:

### 2.3 Prescribed communicable Infections Policy

The University promotes a pro-active public health approach to prescribed communicable infections (PCI) such as HIV/AIDS, Hepatitis B and Hepatitis C, and seeks to minimise the impact of these infections on students' academic progress.

It offers understanding and practical support to students with such infections, and aims to provide a work and study environment free from discrimination, challenging views that result in discriminatory attitudes toward people with PCIs.

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

All prospective Faculty of Health Sciences 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](http://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.



# Master of Surgery

## 1 General

- 1.1 This document must be read in conjunction with:
- a the General Academic Program Rules for Master by Research Programs (see under Adelaide Graduate Centre, p.18) *and*
  - b the Research Student Handbook, published by the Adelaide Graduate Centre.

These documents explain procedures to be followed and contain guidelines on supervision and research for the degree of Doctor of Philosophy and the various Masters Degrees by Research, offered by the University.

All students must comply with both the General Academic Rules and the rules following below, and procedures outlined in the Research Student Handbook.

In addition to the General Academic Program Rules for Masters by Research degrees, in this publication, the following discipline specific rules apply.

## 2 Admission

- 2.1 Further to Rules 4.1 to 4.5 of the General Academic Program Rules, the following persons may be accepted as candidates for the degree of Master of Surgery:
- a Bachelors of Surgery of the University of Adelaide
  - b Graduates in surgery of another university who hold a degree which is accepted by the Research Education and Development Committee on the recommendation of the Faculty as equivalent to the degree of Bachelor of Surgery of the University of Adelaide.
- 2.2 No person may be awarded the degree of Master of Surgery until three years has elapsed since the candidate was awarded the MBBS degree.
- 2.3 A candidate for the degree shall submit evidence satisfactory to the Faculty of having had special training in surgery including at least one year's basic surgical training, or equivalent, in a teaching hospital recognised by the Faculty for the purpose.

## 1 Rules

- 1.1 The Vice-Chancellor, with authority devolved to her/him by Council, and after receipt of advice from the Research Education and Development Committee, shall from time to time prescribe Rules defining the academic standing required for candidature, eligibility for enrolment, the program of study and research for the combined degree program, the condition of candidature and the assessment for the degree.
- 1.2 Such Rules shall become effective from the date of prescription by the Vice-Chancellor or such other date as the Vice-Chancellor may determine.
- 1.3 These rules are applicable to all currently enrolled research students; however, if any student who enrolled prior to this year considers themselves disadvantaged by the stipulated rules, they may apply to the Dean of Graduate Studies for dispensation to be treated, as far as possible, in accordance with the rules in place in their year of enrolment.

## 2 Academic standing

- 2.1 The academic standing required for acceptance as a candidate for the combined degree of Master of Psychology (Clinical) and Doctor of Philosophy shall be a relevant Honours degree of Bachelor, with Honours in Psychology of First Class Standard of the University of Adelaide, or a relevant Honours degree of another institution accepted for the purpose by the University. Applications from students with other qualifications will require the approval of the Faculty of Health Sciences and the Research Education and Development Committee.
- 2.2 A person who holds a relevant degree of another university may be accepted as a candidate provided that the program of study undertaken and the academic standard reached are equivalent to those required of a candidate who is a graduate of the University of Adelaide.
- 2.3 Acceptance of a candidate in the combined degree program will also require selection based on the usual entry criteria for the Master of Psychology (Clinical) program which include referee reports and a structured interview to assess suitability for the profession.
- 2.4 Applicants for the combined degree of Master of Psychology (Clinical) and Doctor of Philosophy must satisfy the minimum English language proficiency requirement as set by the University.
- 2.5 Acceptance into the combined degree of Master of Psychology (Clinical) and Doctor of Philosophy is subject to obtaining police clearance in the form of a National Police Certificate (NPC) as reasonably directed by the School of Psychology.

## 3 Enrolment

- 3.1 A person shall not be enrolled as a candidate for the combined degree unless the applicant's proposed field of study and research is acceptable to the School responsible for the supervision of the candidate's work.
- 3.2 Except with the permission of the Dean of Graduate Studies, a candidate may not enrol concurrently in another academic program.
- 3.3 Except with the permission of the Dean of Graduate Studies, a candidate who is permitted to enrol concurrently in another academic program and who is granted leave of absence must intermit all academic programs in which they are enrolled.

## 4 Duration of candidature and mode of study

A candidate may proceed to the degree by full-time study or, if the Head of the School is satisfied that the candidate has adequate time to pursue supervised research under the control of the University, by half-time study. Except in circumstances approved by the Committee, all coursework, placements and the research thesis shall normally be completed and the thesis submitted:

- a in the case of a full-time candidate, not more than four years from the date of commencement of candidature
- b in the case of a half-time candidate, not less than four years and not more than eight years from the date of commencement of candidature.

## 5 Work for the degree

- 5.1 A candidate shall pursue an approved program of study and research under the control of the University and under the general guidance of supervisors appointed by the University. At least one supervisor shall be a member of the academic staff of the School in which the candidate is enrolled.
- 5.2 Unless exempted by the Faculty, all students will satisfactorily complete compulsory courses to the value of 18 units and one elective to the value of 2 units, three 18-week periods (of 5 half-days per week or equivalent) of supervised placement (12 units) in institutions or organisations offering clinical psychological services approved by the Head of the School of Psychology, and a research project.

### 5.3 Academic program

Unless exempted there from by the Faculty of Health Sciences, every student for the combined degree shall satisfactorily complete the following four components:

#### 5.3.1 Compulsory courses

PSYCHOL 7101 A/B Adult Clinical Psychology .....	4
PSYCHOL 7102 Applied Methodology.....	2
PSYCHOL 7103 Child Clinical Psychology .....	2
PSYCHOL 7104 Clinical Neuropsychology.....	2
PSYCHOL 7105 Preparation for Psychological Practice II .....	2
PSYCHOL 7106 Health Psychology.....	2
PSYCHOL 7107 Preparation for Psychological Practice .....	2
PSYCHOL 7108 Psychological Assessment .....	2

#### 5.3.2 Elective course

One course from the following:

PSYCHOL 7109 Clinical Geropsychology.....	2
PSYCHOL 7110 Rehabilitation and Disability.....	2

#### 5.3.3 Placements

All placements are compulsory:

PSYCHOL 7111 Placement I.....	4
PSYCHOL 7112 Placement II.....	4
PSYCHOL 7113 Placement III.....	4

#### 5.3.4 Research thesis

Research Project in Clinical Psychology.

- 5.4 The candidate shall present the context and importance of the research at a School seminar.
- 5.5 The Head of School shall certify that the thesis is worthy of examination.

## 6 Assessment

- 6.1 There shall be one of two systems of classification of pass in individual courses for the combined degree: either Non Graded Pass; or Pass with High Distinction, Pass with Distinction, Pass with Credit, and Pass.
- 6.2 Attendance is required for at least 80% of the sessions in any compulsory or optional course. A student who fails to meet this requirement will be awarded the result of Incomplete Fail unless there are extenuating circumstances.
- 6.3 On the completion of the approved program of study and research, a candidate shall submit a thesis embodying the results of that study and research, and may submit also, in support of the thesis, other relevant material. No thesis or material presented for any other degree within this or any other institution shall be so submitted. The Committee shall prescribe the form in which the thesis shall be submitted and the number of copies to be submitted.

- 6.4 The thesis and any other material submitted shall be assessed by examiners external to the University.

## 7 Required program of activities at the commencement of candidature

- 7.1 Each candidate (including those on remote candidature) will be enrolled on a provisional basis for the first twelve months of the degree.
- 7.2 Continuation of enrolment at the end of this period will depend on overall academic progress and the completion of set activities to the satisfaction of the School. These activities will form part of a Structured Program of activities extending through the candidature
- 7.3 Such activities will be determined by the School and in the first year will include the completion and presentation of the research proposal and other programs and skills training deemed necessary by the School. In the case of international students, completion of the Integrated Bridging Program is also required, except in those cases where an exemption has been granted.
- 7.4 The research proposal will be agreed and submitted to the Adelaide Graduate Centre preferably within nine, but no later than twelve months from the commencement of candidature.
- 7.5 A major review of progress after twelve months will recommend confirmation of candidature, termination, or the extension of provisional status. In the case of extension, a further review after a clearly defined period, normally three but not in excess of six months would form the basis for confirmation or termination or change to a single program enrolment.

## 8 Remote candidature

- 8.1 Enrolment as a remote candidate may be permitted for some periods of the candidature associated with the research project on the conditions that the School can ensure, and the Research Education and Development Committee is satisfied, that appropriate external supervision, with appropriate affiliation, and facilities are available.
- 8.2 A remote candidate will be required to complete periods of residence in the University of Adelaide as determined by the Research Education and Development Committee in consultation with the School.
- 8.3 Notwithstanding Rule 8.2, a remote candidate will normally be required to undertake their candidature in an internal attendance mode until such time as the Core Component of the Structured Program has been completed.
- 8.4 In accordance with Rule 4 a remote candidate may proceed to the degree either by full-time or half-time study.

- 8.5 On the recommendation of the School, the Committee at any time may permit an enrolled student to enrol as a remote candidate subject to the conditions specified in 8.1, 8.2, 8.3 and 8.4 above.
- 8.6 A remote candidate may be permitted to convert to an internal mode of attendance and shall be subject to the conditions normally applied.
- 8.7 Notwithstanding Rules 8.1 to 8.6 above, remote candidates are also required to abide by the other Rules and guidelines for the degree of Master of Psychology (Clinical)/ Doctor of Philosophy.

## 9 Review of academic progress

- 9.1 The Committee or Faculty may review the progress of a candidate at any time during the program and, if the candidate's progress is unsatisfactory, may terminate the candidature and the student shall cease to be enrolled for the degree.
- 9.2 A formal review of the candidate's progress shall be conducted by the School at least once a year in accordance with the guidelines determined by the Research Education and Development Committee and outlined in the Research Student Handbook.
- 9.3 A formal review and confirmation of candidature will occur twelve months after enrolment (see 7.5 above). Additional reviews will occur around October each year with written reports forwarded to the Dean of Graduate Studies. A candidate's re-enrolment in the following year is conditional upon satisfactory progress in the year of the review.
- 9.4 A student who fails a course and desires to take this course again shall attend the lectures and seminars and do such written and practical work as the teaching staff concerned may prescribe. No student shall be permitted to repeat a course more than once without the approval in writing of the Head of the School concerned.

## 10 Absence from the University

Except for remote candidates, the Committee, on the recommendation of the School concerned, may permit a candidate to pursue, away from the University, work connected with the research for the degree. Such permission may only be granted under special circumstances during provisional candidature.

### Leave of absence

- 11 A candidate whose work is interrupted for a period of time may be granted cumulative leave by the Committee of up to twelve months. If an application for leave is approved, the minimum and maximum periods specified in Rule 4 will be adjusted accordingly by adding the length of the approved leave.
- 12 In exceptional circumstances, the Committee may grant a candidate cumulative leave in excess of 12 months. Where a student is granted this exceptional leave, the University will endeavour

to ensure, but cannot guarantee, that appropriate supervision and resources will be available to support the student on return from leave.

- 13 In some fields of study, time plays a critical role in the currency of the research. In such cases, the research project may no longer be current following leave and the University may not be able to secure supervision in an area where currency is compromised. Additionally, the University may not be able to accommodate an amendment to the research project. Under these circumstances, continuation of candidature may not be possible and the only options will be:
- i withdrawal by the candidate *or*
  - ii termination of candidature by the University.
- 14 The candidature of a student who takes leave from the University without approval will be suspended immediately, on notification of the Adelaide Graduate Centre.
- 15 A candidate granted leave must inform the Adelaide Graduate Centre in writing of resumption of candidature within two weeks of the approved date of return.
- 16 A candidate seeking to extend a period of leave must apply in writing for an extension of leave at least one week prior to the originally approved date of return.

## 17 Withdrawal from candidature

A student may withdraw from candidature at any time. Candidature may be reinstated at a future date without academic consequences, subject to the continuing currency of the research undertaken prior to withdrawal and the currency of the research skills of the candidate. The approval of the Head of School and the ongoing availability of appropriate supervision and resources are also required.

## 18 Suspension of candidature

A student's candidature may be suspended for failure to comply with any formal requirement of candidature, including:

- i failing to abide by the responsibilities of research candidates as detailed in the Research Student Handbook
- ii failing to undertake a required review of progress by the due date or extended due date
- iii failing to respond to any University correspondence sent to the nominated mailing address or campus email address within two months of the requested date of response
- iv failing to accept reasonable offers of supervision facilitated by the University
- v taking leave without prior approval
- vi failing to return from leave on the agreed date
- vii failing to notify the Graduate Centre of return from leave within two weeks of return
- viii non-payment of University fees and charges.

## Termination of candidature

- 19 A student's candidature may be terminated where:
- i progress is unsatisfactory following a review of progress, whether programmed or otherwise *and*
  - ii where candidature has been suspended for more than twelve months.
- 20 A terminated candidature may only be reinstated following a successful appeal.

## 21 Extension of candidature

A candidate may be granted, by the Committee, only one extension of candidature of twelve months beyond the maximum period specified in Rule 4. If the thesis has not been submitted by the end of the extended period, the candidature will lapse.

## 22 Completion of thesis outside the University

A candidate who has completed the equivalent of two years of full-time work under the control of the University and who has completed the required experimental work, coursework, and placements and whose research progress is sufficiently well advanced to permit the satisfactory completion of the thesis outside the University, may be granted permission by the Committee to complete the writing-up of the thesis outside the University. If such permission is granted the candidate will be allowed either twelve months or until the end of candidature, whichever is the lesser, to submit the thesis. If the thesis has not been submitted by the end of the writing-up period the candidature will lapse.

## 23 Lapsed candidature

- 23.1 A candidature that has lapsed will be resumed if the completed thesis, which has not departed from the field of study that was being pursued before the candidature lapsed, is subsequently submitted to the Manager, Graduate Administration and Scholarships. The thesis will only be accepted if the School certifies that it is satisfactory to that School.
- 23.2 Approval of the Committee is required for resumption of a lapsed candidature under any other conditions.

## 24 Intention to submit thesis

A candidate shall notify the Manager, Graduate Administration and Scholarships, in writing, approximately three months before he or she expects to submit the thesis required under Rule 25. A summary of the thesis, together with the proposed thesis title, shall be submitted at the same time.

## 25 Submission of thesis

- 25.1 On completion of the approved program of study and research, including all coursework and placement requirements, a candidate shall submit a thesis embodying the results of that study and research, and may submit also, in support of the thesis, other relevant material.
- 25.2 The thesis shall:
- a display original and critical thought
  - b be a significant contribution to knowledge
  - c relate the topic of research to the broader framework of clinical psychology *and*
  - d be clearly, accurately and cogently written and be suitable illustrated and documented.
- 25.3 The Committee shall prescribe the form in which the thesis shall be submitted and the number of copies to be submitted.

## 26 Appointment of thesis examiners

- 26.1 Candidates shall have the right to submit objections to the appointment of potential examiners of their thesis. Any such objections should be submitted to the Manager, Graduate Administration and Scholarships, at the same time as the notification of intention to submit required under Rule 24.
- 26.2 The Committee shall appoint two thesis examiners who are external to the University, taking account of any objections raised under Rule 26.1 and the recommendations of the Head of the School.
- 26.3 The examiners shall be requested to report in such form as the Committee will determine and to recommend one of the alternatives listed in Rule 27.
- 26.4 After consideration of the reports of the examiners, the Committee may appoint a third external examiner and/or an external arbitrator.

## Examination results

- 27.1 After consideration of the reports of the examiners, the Committee shall determine that:
- a the thesis meets criteria for the Doctor of Philosophy and the candidate therefore be awarded the Master of Psychology (Clinical)/ Doctor of Philosophy *or*
  - b the thesis meets criteria for the Doctor of Philosophy and the candidate therefore be awarded the Master of Psychology (Clinical)/Doctor of Philosophy but that minor amendments be made to the thesis *or*
  - c the thesis meets criteria for the Doctor of Philosophy and the candidate therefore be awarded the Master of Psychology (Clinical)/ Doctor of Philosophy subject to specified amendments being made to the thesis *or*

- d the thesis does not meet criteria for the Doctor of Philosophy and therefore the candidate be not awarded the Master of Psychology (Clinical)/Doctor of Philosophy but be permitted to re-submit the thesis for examination in a revised form *or*
  - e the thesis meets criteria for the Master of Medical Science *or*
  - f the thesis meets the criteria for the Master of Medical Science upon making suitable amendments to the thesis *or*
  - g the thesis does not meet the criteria for the Master of Medical Science
- 27.2 In the event of an examination outcome of (e), (f) or (g), providing that all coursework and placement requirements have been completed satisfactorily, the candidate may be permitted on the recommendation of the Head of the School to re-enrol in the Master of Psychology (Clinical) and to present additional aspects of research to satisfy requirements for award of the Master of Psychology (Clinical) degree.
- 28 In the case of a thesis presented for re-examination as provided for in Rule 27.1(d), the thesis will, as far as possible, be assessed by the original examiners.
- 29 A thesis presented for re-examination will not be submitted for further re-examination.

### **Thesis amendments following examination**

- 30 The time limits for revision of the thesis are:
- i three months where the examination result is to award the degree following minor amendments to the thesis (see Rule 298.1(b)), or where the examination result is to award the degree subject to the specified amendments being made to the thesis (see Rule 27.1(c)) *and*
  - ii twelve months where the examination result is not to award the degree but to permit resubmission of the thesis in a revised form (see Rule 27.1(d)).
- 31 Candidates who require additional time to complete revisions must apply to the Dean of Graduate Studies for permission, stating the reasons for the request. The request should be approved by the principal supervisor and the Head of School or the Postgraduate Coordinator.

### **32 Deposit of thesis in the library**

Such number of copies of a thesis and any other material on which the degree is awarded shall be deposited in the Barr Smith Library or elsewhere as determined by the Committee. Unless otherwise determined by the Committee the copies shall be available for loan and photocopy.

### **33 Loan or photocopy of thesis**

A candidate who does not wish to allow the thesis to be lent or photo-copied when it is deposited in the Library under Rule 32 shall make written application to the Manager, Graduate Administration and Scholarships, at the same time as he or she notifies his or her intention to submit under Rule 24. The withholding of such permission and the period of time involved shall be determined by the Committee.

### **34 Posthumous award**

If a person dies after completing, or in the opinion of the Committee, substantially completing the requirements of the award, the University may confer the award posthumously.

### **35 Revoking the award**

If the Committee is satisfied that, when the Master of Clinical Psychology/Doctor of Philosophy was conferred on a person, the person

- a did not possess the relevant qualification *or*
- b had not completed the necessary requirements,

the Vice-Chancellor with authority devolved to her/him by Council may revoke the award.

Upon revocation, the person is taken never to have received the award.

### **36 Return of documents**

If requested by the Dean of Graduate Studies, the recipient of a Master of Clinical Psychology/Doctor of Philosophy must deliver to the University the documents certifying or evidencing the award.

### **37 General**

When, in the opinion of the Research Education and Development Committee, special circumstances exist, the Committee on the recommendation of the School may vary any of the provisions in Rules 1-36 above.



## 1 General

- 1.1 This document must be read in conjunction with:
- the General Academic Program Rules for Professional Doctorate Degrees (see under Adelaide Graduate Centre p. 19) *and*
  - the Research Student Handbook, published by the Adelaide Graduate Centre.

These documents explain procedures to be followed and contain guidelines on research and supervision for research degrees offered by the University.

All students must comply with both the General Academic Program Rules for Professional Doctorate Degrees and the rules following below, and the policy and procedures outlined in the Research Student Handbook.

In addition to the General Academic Program Rules for Professional Doctorate Degrees in this publication, the following program specific rules apply to the Doctor of Clinical Dentistry.

## 2 Rules

There shall be a degree of Doctor of Clinical Dentistry that will consist of research and clinical components.

Academic standing (Rules 2.1 and 2.2 below override Rules 4.1-4.5 of the General Academic Program Rules for Professional Doctorate Degrees.)

- 2.1 The academic standing required for acceptance as a candidate for the degree shall be:
- an Honours degree *or*
  - successful completion of the primary examinations of the Royal College of Dental Surgeons PLUS at least two years of general practice.

- 2.2 A person who holds a relevant Honours or Masters degree of another university or equivalent thereof, or a qualification from a professional college, may be accepted as a candidate, provided that the program of study undertaken and the academic standard reached are equivalent to those required of a candidate who is a graduate of the University of Adelaide (refer to Rules 4.2 of the General Academic Program Rules for Professional Doctorate Degrees).

## 3 Duration of candidature

The normal program duration for the Doctor of Clinical Dentistry will be three years of full time equivalent (FTE) study.

## 4 Work for the degree

A doctoral thesis may comprise a conventional written narrative presented as typescript (see University Calendar Specifications for Thesis), or a combination of conventional written narrative presented as typescript and publications that have been published and/or submitted for publication and/or text in manuscripts, or a portfolio of publications that have been published and/or submitted for publication and/or text in manuscripts (see Rules 8.5, 8.6, 8.7 and 8.8 of the Professional Doctorate General Academic Program Rules and the University Calendar Specifications for Thesis).

## 5 Clinical Component of the Structured Program

- 5.1 Candidates shall be assessed annually. This assessment may take the form of written examination/s, viva voce and clinical presentation/s. Should a candidate's progress be unsatisfactory, their candidature will be reviewed by the Graduate School Advisory Board of the Dental School which shall make recommendations to the Research Education and Development Committee.
- 5.2 The clinical component required under clause 5.1 must be completed prior to the presentation of the thesis for examination.

## 6 Transitional Arrangements

With the permission of the Research Education and Development Committee students who enrolled in the Doctor of Clinical Dentistry program prior to 2006 are permitted to present a maximum of two full semesters of work undertaken towards the post 2006 research based Doctor of Clinical Dentistry.

## 7 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 towards people with PCIs.

The University also has a legal and ethical obligation to take all reasonable measures to prevent the transmission of prescribed communicable

infections among students, staff members and visitors, and recognises that some students with such infections will not be permitted to complete 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](http://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.



# Doctor of Medicine

- 1 The following persons may be accepted as candidates for the degree of Doctor of Medicine:
    - a Bachelors of Medicine of the University of Adelaide
    - b Graduates in medicine of another university, but who have had a substantial association with the University of Adelaide, and who hold a degree which is accepted by the Faculty of Health Sciences as equivalent to the degree of Bachelor of Medicine of the University of Adelaide.
  - 1.1 Under normal circumstances, one would not expect this award to be given to an applicant with less than eight-years of highly productive and original research in the field of medicine. However, the Doctor of Medicine may be awarded, in exceptional cases, for shorter periods of outstanding work.
  - 2 A candidate may only proceed to the award by the submission of previously published work.
  - 2.1 A person who desires to become a candidate for the award shall give notice of the intended candidature, in writing, to the Adelaide Graduate Centre and, with such notice, shall furnish particulars of his/her medical achievements and of the work to be submitted for the award. No work presented for the award may include material which has been accepted for any other degree or qualification of any university or institution.
  - 2.2 The Faculty of Health Sciences shall appoint a committee to assess the information provided and to advise on whether the Faculty should:
    - a) allow the applicant to proceed, and approve the subject or subjects of the work to be submitted *or*
    - b) not allow the applicant to proceed. The Faculty's decision shall be conveyed to the applicant.
  - 2.3 If the Faculty approves the subject or subjects of the work, and the candidate proceeds with the submission, the Faculty shall nominate three external examiners, all of whom will be eminent in the field of the submitted work; all of whom will still be active in research and experienced in the supervision and examination of work at this level.
  - 3 To qualify for the award, the candidate shall furnish satisfactory evidence that he/she has made an original and substantial contribution to medical knowledge.
  - 3.1 The Doctor of Medicine shall be awarded primarily on a consideration of such published works as a candidate may submit for examination.
  - 3.2 The candidate in submitting published works shall state generally in a preface, and more specifically in notes, the main sources from which the information is derived and the extent to which the candidate has made use of the work of others, especially where joint publications are concerned. The candidate may also signify in general terms the portions of the work claimed as original.
  - 3.3 The outcome of the examination shall be either 'award the MD' or 'not award the MD'
  - 4 The candidate shall lodge with Adelaide Graduate Centre three copies of the work prepared in accordance with the directions given in the Specifications for Thesis, the University of Adelaide's Calendar 2004, Handbook of Postgraduate Programs.
- ## 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.



## 1 General

1.1 This document must be read in conjunction with:

- a the General Academic Program Rules for Professional Doctorate Degrees (see under Adelaide Graduate Centre p. 19) *and*
- b the Research Student Handbook, published by the Adelaide Graduate Centre.

These documents explain procedures to be followed and contain guidelines on research and supervision for research degrees offered by the University.

All students must comply with both the General Academic Program Rules for Professional Doctorate Degrees and the rules following below, and the policy and procedures outlined in the Research Student Handbook.

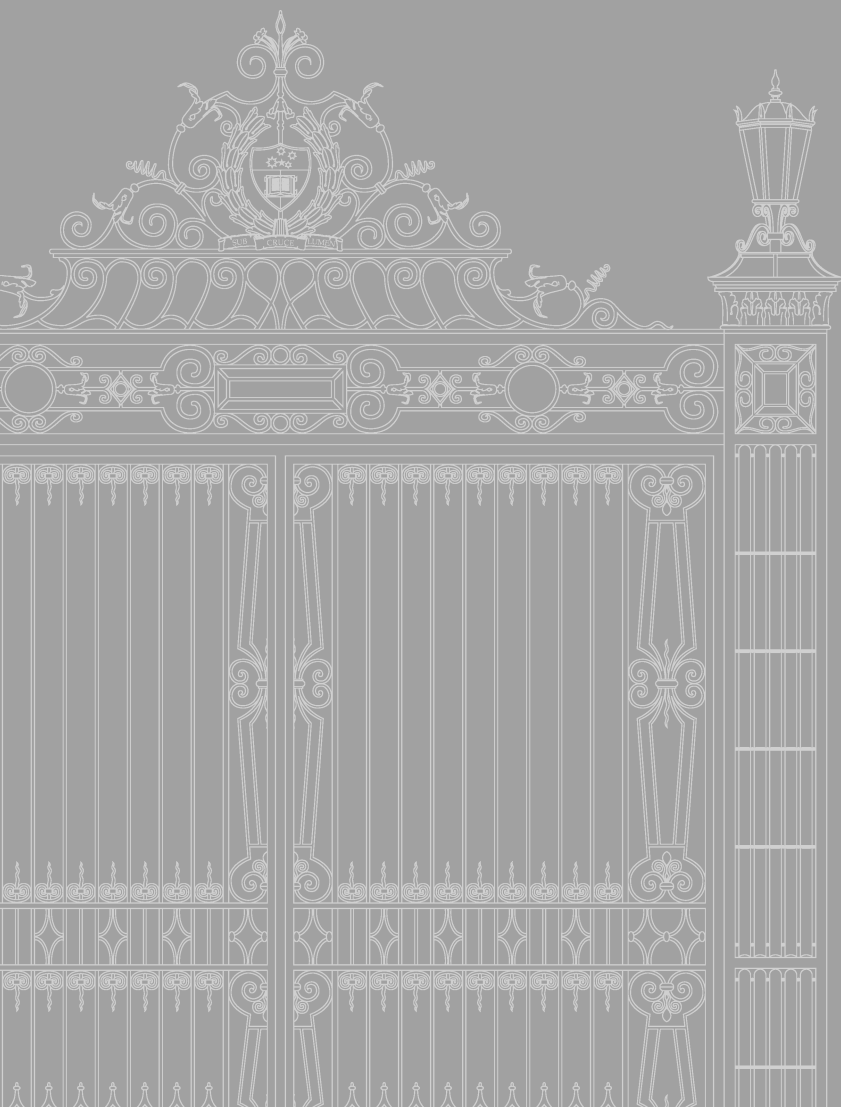
In addition to the General Academic Program Rules for Professional Doctorate Degrees in this publication, the following program specific rules apply to the Doctor of Nursing.

## 2 Duration of candidature

The normal program duration for the Doctor of Nursing will be three years of full time equivalent (FTE) study.

## 3 Work for the degree

A doctoral portfolio must comprise three related research projects, relevant to the student's field of professional practice.



# Academic Program Rules

## Faculty of Humanities and Social Sciences

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\* There will be no intake into these programs in 2009.

## Postgraduate Awards

- Professional Certificate in Art History
- Le Cordon Bleu Professional Certificate in Gastronomy
- Professional Certificate in Environmental Policy and Management
- Graduate Certificate in Applied Linguistics
- Graduate Certificate in Art History
- Graduate Certificate in Creative Writing
- Graduate Certificate in Environmental Policy and Management
- Graduate Certificate in Food Writing
- Le Cordon Bleu Graduate Certificate in Gastronomy
- Graduate Certificate in International Studies
- Graduate Diploma in Applied Linguistics
- Graduate Diploma in Art History
- Graduate Diploma in Creative Writing
- Graduate Diploma in Environmental Policy and Management
- Le Cordon Bleu Graduate Diploma in Gastronomy
- Graduate Diploma in International Studies
- Master of Arts
- Master of Arts (Applied Linguistics)
- Master of Arts (Creative Writing)
- Master of Arts (Curatorial and Museum Studies)
- Le Cordon Bleu Master of Arts (Gastronomy)
- Master of Arts (International Studies)
- Master of Arts (Studies in Art History)
- Master of Arts (Studies in Art History)/Master of Arts (Curatorial and Museum Studies)
- Master of Environmental Policy and Management
- Master of Environmental Policy and Management (Applied)

### 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.



# Professional Certificate in Art History

## 1. Duration of program

To qualify for the Professional Certificate, a candidate shall satisfactorily complete one semester of part-time study or the equivalent in intensive mode.

## 2. Admission

- 2.1 An applicant for admission to the academic program for the Professional Certificate in Art History shall have qualified for a degree of the University or a degree of another institution accepted by the Faculty for the purpose as equivalent to a degree of the University. Selection into the program is based on previous academic achievement.
- 2.2 The Faculty may accept as a candidate for the Professional Certificate a person who does not satisfy the requirements of Rule 2.1 above but who presents evidence of professional experience appropriate to undertake work for the Professional Certificate.
- 2.3 **Articulation with other awards**
- 2.3.1 Students who complete this academic program are also eligible to apply for entry to the Graduate Certificate in Art History and be granted status for the work they have undertaken in the Professional Certificate.
- 2.3.2 Students who have conferred upon them the award of Professional Certificate in Art History who subsequently satisfy the requirements of the Graduate Certificate, Graduate Diploma or Master of Arts (Studies in Art History) must surrender their Professional Certificate before being admitted to the higher award.
- 2.3.3 A candidate for the Graduate Certificate, Graduate Diploma or Master of Arts (Studies in Art History) who does not complete the requirements for the higher award but satisfies the requirements for the Professional Certificate may be admitted to the Professional Certificate.
- 3 **Assessment and examinations**
- 3.1 There shall be four classifications of pass in any subject for the Professional Certificate: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.
- 3.2 A candidate shall not be eligible to submit work for assessment unless the prescribed work has been completed to the satisfaction of the teaching staff concerned.

- 3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4. Qualifications requirements

### 4.1 Academic program

To qualify for the Professional Certificate, a candidate shall satisfactorily complete one course from the program in Art History, as listed below.

ARTH 5200 Studies in European Paintings Connoisseurship .....	6
ARTH 5201 Studies in Australian Colonial Art .....	6
ARTH 5202 Studies in Asian Art .....	6
ARTH 5203 Studies in Australian Art .....	6
ARTH 5204 Studies in European Art Since the Renaissance .....	6
ARTH 5208 Studies in Contemporary Art .....	6
ARTH 5209 Studies in Australian Indigenous Art .....	6
ARTH 5210 Studies in British Art .....	6
ARTH 5211 Studies in Decorative Arts .....	6
ARTH 5212 Studies in Japanese Art .....	6
ARTH 5213 Studies in South-East Asian Art .....	6
ARTH 5214 Studies in Modern Art .....	6

### 4.2 Unacceptable combinations of courses

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

### 4.3 Graduation

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

## 5. Special circumstances

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



# Professional Certificate in Environmental Policy and Management

## 1 Duration of program

To qualify for the Professional Certificate, a candidate shall satisfactorily complete one semester of study.

## 2 Admission

2.1 An applicant for admission to the program of study for the Professional Certificate in Environmental Policy and Management shall have qualified for a degree of the University or a degree of another institution accepted by the Faculty for the purpose as equivalent to a degree of the University. Selection into the program is based on previous academic achievement.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the Professional Certificate a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the Professional Certificate.

### 2.3 Exemption

2.3.1 A candidate who fails a course and is allowed to repeat that course shall, unless exempted partially therefrom by the Executive Dean of Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

### 2.4 Articulation with other awards

2.4.1 Students who complete this program are eligible to apply for entry to the Graduate Certificate in Environmental Policy and Management program, and be granted status for the work they have undertaken in the Professional Certificate.

2.4.2 Students who have conferred upon them the award of Professional Certificate in Environmental Policy and Management who subsequently satisfy the requirements of the Graduate Certificate must surrender their Professional Certificate before being admitted to the Graduate Certificate.

2.4.3 A candidate for the Graduate Certificate in Environmental Policy and Management who does not complete the requirements for the Graduate Certificate but satisfies the requirements for the Professional Certificate may be admitted to the Professional Certificate.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Professional Certificate: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 a 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.

b For the purpose of this Rule, a candidate who is refused permission to be assessed, by examination or otherwise, shall be deemed to have failed the course.

3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the Professional Certificate, a candidate shall satisfactorily complete courses to the value of 6 units from the following:

GEST 5001 Research Design and Methods.....	6
GEST 5002 Environmental Planning and Governance.....	6
GEST 5003 Environmental Impact Assessment ...	6
GEST 5004 Environmental Economics & Policy ....	6
GEST 5005 Community Engagement .....	6
GEST 5006 People and Environment in the Asia-Pacific Region .....	6

### 4.2 Unacceptable combinations of courses

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

### 4.3 Graduation

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

## 5 Special circumstances

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



# Le Cordon Bleu Professional Certificate in Gastronomy

## 1 Duration of program

To qualify for the Professional Certificate, a candidate shall satisfactorily complete one semester of part-time study or the equivalent in intensive mode.

## 2 Admission

- 2.1 An applicant for admission to the academic program for the Professional Certificate in Gastronomy shall have qualified for a degree of the University or a degree of another institution accepted by the Faculty for the purpose as equivalent to a degree of the University. Selection into the program is based on previous academic achievement.
- 2.2 The Faculty may accept as a candidate for the Professional Certificate a person who does not satisfy the requirements of Rule 2.1 above but who presents evidence of professional experience appropriate to undertake work for the Professional Certificate.
- 2.3 **Articulation with other awards**
- 2.3.1 Students who complete this academic program with a result at credit level or higher are eligible to apply for entry to the Graduate Certificate in Gastronomy and be granted status for the work they have undertaken in the Professional Certificate.
- 2.3.2 Students who have conferred upon them the award of Professional Certificate in Gastronomy who subsequently satisfy the requirements of the Graduate Certificate, Graduate Diploma or Master of Arts (Gastronomy) must surrender their Professional Certificate before being admitted to the higher award.
- 2.3.3 A candidate for the Graduate Certificate, Graduate Diploma or Master of Arts (Gastronomy) who does not complete the requirements for the higher award but satisfies the requirements for the Professional Certificate may be admitted to the Professional Certificate.

## 3 Assessment and examination

- 3.1 There shall be four classifications of pass in any subject for the Professional Certificate: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.
- 3.2 A candidate shall not be eligible to submit work for assessment unless the prescribed work has been completed to the satisfaction of the teaching staff concerned.

- 3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the Professional Certificate, a candidate shall satisfactorily complete the following course:

GAST 5300 Principles of Gastronomy..... 6

### 4.2 Unacceptable combinations of courses

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

### 4.3 Graduation

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

## 5 Special circumstances

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



# Graduate Certificate in Applied Linguistics

Note: Students who commenced the Graduate Certificate prior to 2005, and have yet to complete the requirements of the program, should contact the Faculty of Humanities and Social Sciences office for enrolment and qualifications advice.

## 1 Duration of program

To qualify for the Graduate Certificate, a candidate shall satisfactorily complete one semester of full-time study or not more than one year of part-time study.

## 2 Admission

- 2.1 An applicant for admission to the program of study for the Graduate Certificate in Applied Linguistics shall have qualified for a degree of the University or a degree of another institution accepted by the Faculty for the purpose as equivalent to a degree of the University. Selection into the program is based on previous academic achievement.
- 2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the Graduate Certificate a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the Graduate Certificate.
- 2.3 **Status, exemption and credit transfer**
  - 2.3.1 Except with special permission of the Faculty, no candidate will be granted status for any course which he or she has completed for another award.
  - 2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for graduate level studies.
  - 2.3.3 In any case, no candidate will be awarded more than 6 units of status.
  - 2.3.4 A candidate who fails a course and desires to repeat that course shall, unless exempted partially therefrom by the Executive Dean of Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.
- 2.4 **Articulation with other awards**
  - 2.4.1 Students who complete this program are also eligible to apply for entry to the Graduate Diploma in Applied Linguistics program, and be granted status for the work they have undertaken in the Graduate Certificate.
  - 2.4.2 Students who have conferred upon them the award of Graduate Certificate in Applied Linguistics who subsequently satisfy the requirements of the Graduate Diploma must surrender their Graduate Certificate before being admitted to the Graduate Diploma.

- 2.4.3 A candidate for the Graduate Diploma in Applied Linguistics who satisfies the requirements for the Graduate Certificate but who does not complete the requirements for the Graduate Diploma may be admitted to the Graduate Certificate.

## 3 Assessment and examinations

- 3.1 There shall be four classifications of pass in any course for the Graduate Certificate: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.
- 3.2
  - a 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.
  - b For the purpose of this Rule, a candidate who is refused permission to be assessed by examination or otherwise shall be deemed to have failed the course.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the Graduate Certificate, a candidate shall satisfactorily complete courses to the value of 12 units, chosen from the following:

LING 5001 Computer Assisted Language Learning - CALL .....	6
LING 5004 Language and Meaning .....	6
LING 5008 Language and the Environment .....	6
LING 5009 Language Teaching in Specific Settings.....	6
LING 5010 English for Academic Purposes.....	6
LING 5011 Language and Learning.....	6
LING 5017 Language Teaching Methods: TESOL/LOTE/Literacy.....	6
LING 5030 Language and Communication Planning .....	6
LING 5059 Special Topic in Linguistics .....	6

### 4.2 Unacceptable combinations of courses

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

### 4.3 Graduation

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

## 5 Special circumstances

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

## 1 Duration of program

To qualify for the Graduate Certificate, a candidate shall satisfactorily complete one semester of full-time study or not more than one year of part-time study.

## 2 Admission

2.1 An applicant for admission to the academic program for the Graduate Certificate in Art History shall have qualified for a degree of the University or a degree of another institution accepted by the Faculty for the purpose as equivalent to a degree of the University. Selection into the program is based on previous academic achievement.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the Graduate Certificate a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the Graduate Certificate.

## 2.3 Status, exemption and credit transfer

2.3.1 Except with special permission of the Faculty, no candidate will be granted status for any course that he or she has presented for another award.

2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for graduate level studies.

2.3.3 In any case, no candidate will be awarded more than 6 units of status.

2.3.4 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially therefrom by the Executive Dean of the Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

## 2.4 Articulation with other awards

2.4.1 Students who complete this academic program are also eligible to apply for entry to the Graduate Diploma in Art History and be granted status for the work they have undertaken in the Graduate Certificate.

2.4.2 Students who have conferred upon them the award of Graduate Certificate in Art History who subsequently satisfy the requirements of the Graduate Diploma must surrender their Graduate Certificate before being admitted to the Graduate Diploma.

2.4.3 A candidate for the Graduate Diploma in Art History who does not complete the requirements for the Graduate Diploma but satisfies the requirements for the Graduate Certificate may be admitted to the Graduate Certificate.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Graduate Certificate: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 a 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.

b For the purpose of this Rule, a candidate who is refused permission to be assessed by examination or otherwise shall be deemed to have failed the course.

3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the Graduate Certificate, a candidate shall satisfactorily complete courses to the value of 12 units, as follows:

#### 4.1.1 Core course

One course from the following:

ARTH 5202 Studies in Asian Art.....	6
ARTH 5203 Studies in Australian Art .....	6
ARTH 5204 Studies in European Art Since the Renaissance .....	6

#### 4.1.2 Elective courses

One course from the following:

ARTH 5200 Studies in European Paintings Connoisseurship .....	6
ARTH 5201 Studies in Australian Colonial Art .....	6
ARTH 5208 Studies in Contemporary Art .....	6
ARTH 5209 Studies in Australian Indigenous Art .....	6
ARTH 5210 Studies in British Art .....	6
ARTH 5211 Studies in Decorative Arts .....	6
ARTH 5212 Studies in Japanese Art .....	6
ARTH 5213 Studies in South-East Asian Art.....	6
ARTH 5214 Studies in Modern Art.....	6

4.1.3 Students may also present another core course from those listed in 4.1.1 as an elective.

#### **4.2 Unacceptable combinations of courses**

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

#### **4.3 Graduation**

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

### **5 Special circumstances**

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

## 1 Duration of program

To qualify for the Graduate Certificate, a candidate shall satisfactorily complete one semester of full-time study or not more than one year of part-time study.

## 2 Admission

2.1 An applicant for admission to the program of study for the Graduate Certificate in Creative Writing shall have qualified for a degree of the University or a degree of another institution accepted by the Faculty for the purpose as equivalent to a degree of the University, and present a suitable portfolio of creative writing. Selection into the program is based on previous academic achievement and assessment of the portfolio of creative writing.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the Graduate Certificate a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the Graduate Certificate.

### 2.3 Status, exemption and credit transfer

2.3.1 Except with special permission of the Faculty, no candidate will be granted status for any course which he or she has completed for another award.

2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for graduate level studies.

2.3.3 In any case, no candidate will be awarded more than 6 units of status and all candidates are required to take the core course, ENGL 5002.

2.3.4 A candidate who fails a course and desires to repeat that course shall, unless exempted partially by the Executive Dean of Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

### 2.4 Articulation with other awards

2.4.1 Students who complete this program are also eligible to apply for entry to the Graduate Diploma in Creative Writing program, and be granted status for the work they have undertaken in the Graduate Certificate.

2.4.2 Students who have conferred upon them the award of Graduate Certificate in Creative Writing who subsequently satisfy the requirements of the Graduate Diploma must surrender their Graduate Certificate before being admitted to the Graduate Diploma.

2.4.3 A candidate for the Graduate Diploma in Creative Writing who does not complete the requirements for the Graduate Diploma but satisfies the requirements for the Graduate Certificate may be admitted to the Graduate Certificate.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Graduate Certificate: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 a 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.

b For the purpose of this Rule, a candidate who is refused permission to be assessed by examination or otherwise shall be deemed to have failed the course.

3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

### 4.1 Academic Program

To qualify for the Graduate Certificate, a candidate shall satisfactorily complete courses to the value of 12 units, chosen from the following:

All candidates shall complete

ENGL 5005 Writing Process .....	6
ENGL 5006 Thinking Aloud .....	6
ENGL 5007 Genre Practice.....	6
ENGL 5008 Genre Study .....	6
ENGL 5009 Editing .....	6
ENGL 5010 Publishing.....	6

### 4.2 Unacceptable combinations of courses

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

### 4.3 Graduation

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

## **5 Special circumstances**

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





# Graduate Certificate in Environmental Policy and Management

## 1 Duration of program

To qualify for the Graduate Certificate, a candidate shall satisfactorily complete one semester of full-time study or not more than one year of part-time study.

## 2 Admission

2.1 An applicant for admission to the program of study for the Graduate Certificate in Environmental Policy and Management shall have qualified for a degree of the University or a degree of another institution accepted by the Faculty for the purpose as equivalent to a degree of the University. Selection into the program is based on previous academic achievement.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the Graduate Certificate a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the Graduate Certificate.

## 2.3 Status, exemption and credit transfer

2.3.1 Except with special permission of the Faculty, no candidate will be granted status for any course which he or she has completed for another award.

2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for graduate level studies.

2.3.3 In any case, no candidate will be awarded more than 6 units of status.

2.3.4 A candidate who fails a course and is allowed to repeat that course shall, unless exempted partially therefrom by the Executive Dean of Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

## 2.4 Articulation with other awards

2.4.1 Students who complete this program are also eligible to apply for entry to the Graduate Diploma in Environmental Policy and Management program, and be granted status for the work they have undertaken in the Graduate Certificate.

2.4.2 Students who have conferred upon them the award of Graduate Certificate in Environmental Policy and Management who subsequently satisfy the requirements of the Graduate Diploma must surrender their Graduate Certificate before being admitted to the Graduate Diploma.

2.4.3 A candidate for the Graduate Diploma in Environmental Policy and Management who does not complete the requirements for the Graduate Diploma but satisfies the requirements for the Graduate Certificate may be admitted to the Graduate Certificate.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Graduate Certificate: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 a 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.

b For the purpose of this Rule, a candidate who is refused permission to be assessed, by examination or otherwise, shall be deemed to have failed the course.

3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the Graduate Certificate, a candidate shall satisfactorily complete courses to the value of 12 units, as follows:

#### 4.1.1 Core course

GEST 5002 Environmental Planning and Governance..... 6

#### 4.1.2 Elective courses

All candidates shall complete an elective course to the value of 6 units selected from the following:

GEST 5001 Research Design and Methods..... 6

GEST 5003 Environmental Impact Assessment ..... 6

GEST 5004 Environmental Economics & Policy .... 6

GEST 5005 Community Engagement ..... 6

GEST 5006 People and Environment in the Asia-Pacific Region ..... 6

4.1.3 Where the core course is not available in a given semester, students may, in consultation with the program coordinator, substitute an additional elective course to satisfy the requirements of the Graduate Certificate.

#### **4.2 Unacceptable combinations of courses**

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

#### **4.3 Graduation**

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

### **5 Special circumstances**

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



# Graduate Certificate in Food Writing

## 1 Duration of program

To qualify for the Graduate Certificate, a candidate shall satisfactorily complete one semester of full-time study.

## 2 Admission

- 2.1 An applicant for admission to the program of study for the Graduate Certificate in Food Writing shall have qualified for a degree of the University or a degree of another institution accepted by the Faculty for the purpose as equivalent to a degree of the University, and present a suitable portfolio of creative or journalistic writing. Selection into the program is based on previous academic achievement and assessment of the portfolio of writing.
- 2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the Graduate Certificate a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the Graduate Certificate.
- ### 2.3 Status, exemption and credit transfer
- 2.3.1 Except with special permission of the Faculty, no candidate will be granted status for any course which he or she has completed for another award.
- 2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for graduate level studies.
- 2.3.3 In any case, no candidate will be awarded more than 6 units of status.
- 2.3.4 A candidate who fails a course and desires to repeat that course shall, unless exempted partially therefrom by the Executive Dean of Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.
- ### 2.4 Articulation with other awards
- 2.4.1 Students who complete this program are also eligible to apply for entry to the Graduate Diploma in Creative Writing program, and be granted status for the work they have undertaken in the Graduate Certificate.
- 2.4.2 Students who have conferred upon them the award of Graduate Certificate in Food Writing who subsequently satisfy the requirements of the Graduate Diploma in Creative Writing must surrender their Graduate Certificate before being admitted to the Graduate Diploma.

## 3 Assessment and examinations

- 3.1 There shall be four classifications of pass in any course for the Graduate Certificate: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.
- 3.2
- a 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.
  - b For the purpose of this Rule, a candidate who is refused permission to be assessed by examination or otherwise shall be deemed to have failed the course.
- 3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

### 4.1 Academic Program

To qualify for the Graduate Certificate, a candidate shall satisfactorily complete courses to the value of 12 units, as follows:

All candidates shall complete:

ENGL 5017 Food Writing..... 12

### 4.2 Unacceptable combinations of courses

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

### 4.3 Graduation

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

## 5 Special circumstances

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

## **Graduate Attributes**

### Graduate Certificate in Food Writing

The Graduate Attributes for this program are:

- Knowledge and understanding of the role of food in literature and an appreciation of the various writing genres in which food can be incorporated (fiction, memoir, travel writing, poetry, journalism), at advanced levels that are internationally recognised
- Appreciation of the qualities of good food writing
- The ability to locate, analyse, evaluate and synthesise information on topics related to all aspects of food from a wide variety of sources in a planned and timely manner
- An ability to propose effective, creative and innovative solutions, both independently and cooperatively, to current and future problems relevant to food through the appropriate media
- A commitment to the highest standards of professional endeavour, including knowledge and understanding of Australian and international media, especially food media, and the ability to take a leadership role in the professional community
- An awareness of ethical, social and cultural issues associated with food writing, food journalism and food publishing, including an understanding of copyright (especially as it relates to recipes) and other legal issues, and their importance in the exercise of professional skills and responsibilities.



# Le Cordon Bleu Graduate Certificate in Gastronomy

## 1 Duration of program

To qualify for the Graduate Certificate, an oncampus candidate shall normally complete the program in one semester, based on a study load of 24 units per year.

An online candidate shall normally complete the program in one year, based on a study load of 12 units per year.

## 2 Admission

2.1 An applicant for admission to the academic program for the Graduate Certificate in Gastronomy shall have:

- a qualified for a degree of the University or a degree of another institution accepted by the Faculty for the purpose as equivalent to a degree of the University *or*
- b qualified for the Le Cordon Bleu Professional Certificate in Gastronomy at credit level or higher.

Selection into the program is based on previous academic achievement.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the Graduate Certificate a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the Graduate Certificate.

### 2.3 Status, exemption and credit transfer

2.3.1 Except with special permission of the Faculty, no candidate will be granted status for any course that he or she has presented for another award.

2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for graduate level studies.

2.3.3 In any case, no candidate will be awarded more than 6 units of status.

2.3.4 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially therefrom by the Executive Dean of the Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

### 2.4 Articulation with other awards

2.4.1 Students who complete this academic program are also eligible to apply for entry to the Graduate Diploma in Gastronomy and be granted status for the work they have undertaken in the Graduate Certificate.

2.4.2 Students who have conferred upon them the award of Graduate Certificate in Gastronomy who subsequently satisfy the requirements of the

Graduate Diploma must surrender their Graduate Certificate before being admitted to the Graduate Diploma.

2.4.3 A candidate for the Graduate Diploma in Gastronomy who does not complete the requirements for the Graduate Diploma but satisfies the requirements for the Graduate Certificate may be admitted to the Graduate Certificate.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Graduate Certificate: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 a 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.

b For the purpose of this Rule, a candidate who is refused permission to be assessed by examination or otherwise shall be deemed to have failed the course.

3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the Graduate Certificate, a candidate shall satisfactorily complete courses to the value of 12 units, as follows:

#### 4.1.1 Core courses

All candidates shall complete the following course:  
GAST 5300 Principles of Gastronomy ..... 6

#### 4.1.2 Elective Courses

One elective from the following:  
GAST 5301 Food and Drink  
in Contemporary Western Society ..... 6  
GAST 5302 Gastronomy and Communication ..... 6  
GAST 5303 Gastronomic Tourism ..... 6  
GAST 5304 Food and Wine Technology ..... 6  
GAST 5305 Asian Food History and Culture ..... 6

### 4.2 Unacceptable combinations of courses

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

### 4.3 Graduation

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

## 5 Special circumstances

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

## 1 Duration of program

To qualify for the Graduate Certificate, a candidate shall satisfactorily complete one semester of full-time study or not more than one year of part-time study.

## 2 Admission

- 2.1 An applicant for admission to the program of study for the Graduate Certificate in International Studies shall have qualified for a degree of the University or a degree of another institution accepted by the Faculty for the purpose as equivalent to a degree of the University. Selection into the program is based on previous academic achievement.
- 2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the Graduate Certificate a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the Graduate Certificate.
- 2.3 **Status, exemption and credit transfer**
  - 2.3.1 Except with special permission of the Faculty, no candidate will be granted status for any course which he or she has completed for another award.
  - 2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for graduate level studies.
  - 2.3.3 In any case, no candidate will be awarded more than 6 units of status.
  - 2.3.4 A candidate who fails a course and desires to repeat that course shall, unless exempted partially therefrom by the Executive Dean of Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.
- 2.4 **Articulation with other awards**
  - 2.4.1 Students who complete this program are also eligible to apply for entry to the Graduate Diploma in International Studies program, and be granted status for the work they have undertaken in the Graduate Certificate.
  - 2.4.2 Students who have conferred upon them the award of Graduate Certificate in International Studies who subsequently satisfy the requirements of the Graduate Diploma must surrender their Graduate Certificate before being admitted to the Graduate Diploma.
  - 2.4.3 A candidate for the Graduate Diploma in International Studies who does not complete the requirements for the Graduate Diploma but satisfies the requirements for the Graduate

Certificate may be admitted to the Graduate Certificate.

## 3 Assessment and examinations

- 3.1 There shall be four classifications of pass in any course for the Graduate Certificate: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.
- 3.2
  - a 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.
  - b For the purpose of this Rule, a candidate who is refused permission to be assessed by examination or otherwise shall be deemed to have failed the course.
- 3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the Graduate Certificate a candidate shall satisfactorily complete courses to the value of 12 units as follows:

#### 4.1.1 Core course

One from:

INST 5000 Approaches and Issues in International Studies.....	6
INST 5001 International Politics in the Post Cold War World.....	6

#### 4.1.2 Elective courses

One of the following courses:

BUSINESS 7001 International Challenges for Global Business .....	6
INST 5002 International Studies Topic A.....	6
INST 5003 International Studies Topic B.....	6
INST 5004 Regionalism and Multilateralism .....	6
INST 5005 Strategic Cultures and Unconventional Conflict .....	6
INST 5006 Intelligence and Security After the Cold War.....	6
INST 5007EX Themes in Intelligence & History ....	6
INST 5008 The Politics of War: Old and New.....	6
INST 5009 International Security.....	6

INST 5010 Perspectives on Nuclear Proliferation.....	6
INST 5011 Intelligence Analysis: Theory and Practice.....	6
INST 5012 Greater China.....	6
INST 5013 The Politics of Emotion.....	6
PHIL 5000 Applied Ethics.....	6
POLI 5001 The Politics of Health .....	6
POLI 5002 Adam Smith 1723-1790 & John Stuart Mill 1806-1873 .....	6
POLI 5003 How Much is Society Worth? .....	6

Students may present an additional core course as an elective.

#### 4.2 Unacceptable combinations of courses

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

#### 4.3 Graduation

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

### 5 Special circumstances

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



# Graduate Certificate in Spatial Information Science

**Note: There will be no intake into this program in 2009.**

## 1 Duration of program

To qualify for the Graduate Certificate, a candidate shall satisfactorily complete one semester of full-time study or not more than one year of part-time study.

## 2 Admission

2.1 An applicant for admission to the program of study for the Graduate Certificate in Spatial Information Science shall have qualified for a degree of the University or a degree of another institution accepted by the Faculty for the purpose as equivalent to a degree of the University. Selection into the program is based on previous academic achievement.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the Graduate Certificate a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the Graduate Certificate.

### 2.3 Status, exemption and credit transfer

2.3.1 Except with special permission of the Faculty, no candidate will be granted status for any course which he or she has completed for another award.

2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for graduate level studies.

2.3.3 In any case, no candidate will be awarded more than 6 units of status.

2.3.4 A candidate who fails a course and desires to repeat that course shall, unless exempted partially therefrom by the Executive Dean of Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

### 2.4 Articulation with other awards

2.4.1 Students who complete this program are also eligible to apply for entry to the Graduate Diploma in Spatial Information Science program, and be granted status for the work they have undertaken in the Graduate Certificate.

2.4.2 Students who have conferred upon them the award of Graduate Certificate in Spatial Information Science who subsequently satisfy the requirements of the Graduate Diploma must surrender their Graduate Certificate before being admitted to the Graduate Diploma.

2.4.3 A candidate for the Graduate Diploma in Spatial Information Science who does not complete the requirements for the Graduate Diploma but satisfies the requirements for the Graduate

Certificate may be admitted to the Graduate Certificate.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Graduate Certificate: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 a 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.

b For the purpose of this Rule, a candidate who is refused permission to be assessed by examination or otherwise shall be deemed to have failed the course.

3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the Graduate Certificate, a candidate shall satisfactorily complete courses to a total of 12 units, as follows:

GISC 5008 Introduction to Spatial Data Models...	3
GISC 5009 Introduction to Spatial Information Systems .....	3
GISC 5013 Introduction to Remote Sensing.....	3
GISC 5014 Advanced Geographical Information Systems .....	3
Alternative courses may be made available as appropriate, depending on students' previous study or employment history.	
GISC 5015 Special Topic in Spatial Data Models..	3
GISC 5016 Special Topic in Spatial Data Modelling and Analysis .....	3
GISC 5017 Special Topic in Spatial Data Visualisation .....	3
GISC 5018 Special Topic in Spatial Information Systems .....	3

### 4.2 Unacceptable combinations of courses

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

### 4.3 Graduation

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

## 5 Special circumstances

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

## 1 Duration of program

To qualify for the Graduate Diploma, a candidate shall satisfactorily complete one year of full-time study or no more than two years of part-time study.

## 2 Admission

2.1 An applicant for admission to the program of study for the Graduate Diploma in Applied Linguistics shall have qualified for a degree of the University or a degree of another institution accepted by the Faculty for the purpose as equivalent to a degree of the University. Selection into the program is based on previous academic achievement.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the Graduate Diploma a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the Graduate Diploma.

## 2.3 Status, exemption and credit transfer

2.3.1 Except with special permission of the Faculty, no candidate will be granted status for any course which he or she has completed for another award.

2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for graduate level studies.

2.3.3 In any case, no candidate will be awarded more than 6 units of status, except for those candidates who have completed the Graduate Certificate in Applied Linguistics. (see Rule 2.4 below).

2.3.4 A candidate who fails a course and desires to repeat that course shall, unless exempted partially therefrom by the Executive Dean of Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

## 2.4 Articulation with other awards

2.4.1 A candidate for the Graduate Diploma in Applied Linguistics who does not complete the requirements for the Graduate Diploma but satisfies the requirements for the Graduate Certificate may be admitted to the Graduate Certificate.

2.4.2 A candidate who has been admitted to the Graduate Certificate in Applied Linguistics and who subsequently satisfies the requirements for the Graduate Diploma must surrender the Graduate Certificate before being admitted to the Graduate Diploma.

2.4.3 A candidate for the degree of Master of Arts (Applied Linguistics) who does not complete the requirements of the degree, but who satisfies the requirements for the Graduate Diploma may be admitted to the Graduate Diploma.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Graduate Diploma: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 a 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.

b For the purpose of this Rule, a candidate who is refused permission to be assessed by examination or otherwise shall be deemed to have failed the course.

3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the Graduate Diploma, a candidate shall satisfactorily complete courses to the value of 24 units, chosen from the following:

LING 5001 Computer Assisted Language Learning - CALL .....	6
LING 5004 Language and Meaning .....	6
LING 5008 Language and the Environment.....	6
LING 5009 Language Teaching in Specific Settings.....	6
LING 5010 English for Academic Purposes.....	6
LING 5011 Language and Learning.....	6
LING 5017 Language Teaching Methods: TESOL/LOTE/Literacy.....	6
LING 5030 Language and Communication Planning .....	6
LING 5059 Special Topic in Linguistics .....	6

### 4.2 Unacceptable combinations of courses

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

### 4.3 Graduation

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

## 5 Special circumstances

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

## 1 Duration of program

To qualify for the Graduate Diploma, a candidate shall satisfactorily complete one year of full-time study or no more than two years of part-time study.

## 2 Admission

- 2.1 An applicant for admission to the academic program for the Graduate Diploma in Art History shall have qualified for a degree of the University or a degree of another institution accepted by the Faculty for the purpose as equivalent to a degree of the University. Selection into the program is based on previous academic achievement.
- 2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the Graduate Diploma a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the Graduate Diploma.

## 2.3 Status, exemption and credit transfer

- 2.3.1 Except with special permission of the Faculty, no candidate will be granted status for any course that he or she has presented for another award.
- 2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for graduate level studies.
- 2.3.3 In any case, no candidate will be awarded more than 6 units of status, except for those candidates who have completed the Graduate Certificate in Art History.
- 2.3.4 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially therefrom by the Executive Dean of the Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

## 2.4 Articulation with other awards

- 2.4.1 A candidate for the Graduate Diploma in Art History who does not complete the requirements for the Graduate Diploma but satisfies the requirements for the Graduate Certificate may be admitted to the Graduate Certificate.
- 2.4.2 A candidate who has been admitted to the Graduate Certificate in Art History and who subsequently satisfies the requirement of the Graduate Diploma must surrender the Graduate Certificate before being admitted to the Graduate Diploma.
- 2.4.3 A candidate for the degree of Master of Arts (Studies in Art History) who satisfies the requirements for the Graduate Diploma but who does not complete the requirements of the degree may be admitted to the Graduate Diploma.

## 3 Assessment and examinations

- 3.1 There shall be four classifications of pass in any course for the Graduate Diploma: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.
- 3.2 a 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.
- b For the purpose of this Rule, a candidate who is refused permission to be assessed by examination or otherwise shall be deemed to have failed the course.
- 3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the Graduate Diploma, a candidate shall satisfactorily complete courses to the value of 24 units, as follows:

#### 4.1.1 Core course

One course from the following:

ARTH 5202 Studies in Asian Art.....	6
ARTH 5203 Studies in Australian Art .....	6
ARTH 5204 Studies in European Art	
Since the Renaissance .....	6

#### 4.1.2 Elective courses

Three courses from the following:

ARTH 5200 Studies in European Paintings	
Connoisseurship .....	6
ARTH 5201 Studies in Australian Colonial Art .....	6
ARTH 5208 Studies in Contemporary Art .....	6
ARTH 5209 Studies in Australian Indigenous Art .....	6
ARTH 5210 Studies in British Art .....	6
ARTH 5211 Studies in Decorative Arts .....	6
ARTH 5212 Studies in Japanese Art .....	6
ARTH 5213 Studies in South-East Asian Art .....	6
ARTH 5214 Studies in Modern Art.....	6

- 4.1.3 Students may also present another core course from those listed in 4.1.1 as an elective.

#### **4.2 Unacceptable combinations of courses**

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

#### **4.3 Graduation**

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

### **5 Special circumstances**

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

## 1 Duration of program

To qualify for the Graduate Diploma, a candidate shall satisfactorily complete one year of full-time study or no more than two years of part-time study.

## 2 Admission

2.1 An applicant for admission to the program of study for the Graduate Diploma in Creative Writing shall have qualified for a degree of the University or a degree of another institution accepted by the Faculty for the purpose as equivalent to a degree of the University, and present a suitable portfolio of creative writing. Selection into the program is based on previous academic achievement and assessment of the portfolio of creative writing.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the Graduate Diploma a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the Graduate Diploma.

### 2.3 Status, exemption and credit transfer

2.3.1 Except with special permission of Faculty, no candidate will be granted status for any course which he or she has completed for another award.

2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for:

- a graduate level studies *or*
- b the completion of the core courses ENGL 5001 and ENGL 5002 by those candidates who have completed an Honours degree in English or Creative Writing at IIA level or higher.

2.3.3 In any case, any candidate applying for status will be awarded no more than 12 units of status. All candidates will be required to satisfactorily complete the core course, ENGL 5002.

2.3.4 A candidate who fails a course and desires to repeat that course shall, unless exempted partially therefrom by the Executive Dean of Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

### 2.4 Articulation with other awards

2.4.1 A candidate for the Graduate Diploma in Creative Writing who does not complete the requirements for the Graduate Diploma but satisfies the requirements for the Graduate Certificate may be admitted to the Graduate Certificate.

2.4.2 A candidate who has been admitted to the Graduate Certificate in Creative Writing and who subsequently satisfies the requirements for the Graduate Diploma must surrender the Graduate

Certificate before being admitted to the Graduate Diploma.

2.4.3 A candidate for the degree of Master of Arts (Creative Writing) who does not complete the requirements of the degree, but who satisfies the requirements for the Graduate Diploma may be admitted to the Graduate Diploma.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Graduate Diploma: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

- 3.2
- a 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.
  - b For the purpose of this Rule, a candidate who is refused permission to be assessed by examination or otherwise shall be deemed to have failed the course.

3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the Graduate Diploma, a candidate shall satisfactorily complete courses to the value of 24 units, as follows:

#### 4.1.1 Core courses

All candidates shall complete the following core courses

ENGL 5005 Writing Process .....	6
ENGL 5007 Genre Practice.....	6

#### 4.1.2 Elective Courses

All candidates shall complete twelve units from the following elective courses:

ENGL 5006 Thinking Aloud .....	6
ENGL 5008 Genre Study .....	6
ENGL 5009 Editing .....	6
ENGL 5010 Publishing.....	6
ENGL 5017 Food Writing.....	12

### 4.2 Unacceptable combinations of courses

No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty concerned, contains a substantial amount of

the same material; and no course or portion of a course may be counted twice towards an award.

#### **4.3 Graduation**

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

### **5 Special circumstances**

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



# Graduate Diploma in Environmental Policy and Management

## 1 Duration of program

To qualify for the Graduate Diploma, a candidate shall satisfactorily complete one year of full-time study or no more than two years of part-time study.

## 2 Admission

2.1 An applicant for admission to the program of study for the Graduate Diploma in Environmental Policy and Management shall have qualified for a degree of the University or for a degree of another institution accepted for the purpose by the University. Selection into the program is based on previous academic achievement.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a student for the Graduate Diploma a person who does not satisfy the requirements of Rule 2.1. above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the Graduate Diploma.

### 2.3 Status, exemption and credit transfer

2.3.1 Except with special permission of Faculty, no candidate will be granted status for any course which he or she has completed for another award.

2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for graduate level studies.

2.3.3 In any case, no candidate will be awarded more than 6 units of status, except for those candidates who have completed the Graduate Certificate in Environmental Policy and Management.

2.3.4 A candidate who fails a course and desires to repeat that course shall, unless exempted partially by the Executive Dean of Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

### 2.4 Articulation with other awards

2.4.1 Students who complete this program are also eligible to apply for entry to the Masters of Environmental Policy and Management or Masters of Environmental Policy and Management (Applied) program, and be granted status for the work they have undertaken in the Graduate Diploma.

2.4.2 A candidate for the Graduate Diploma who satisfies the requirements for the Graduate Certificate but does not complete the requirements of the Graduate Diploma may be admitted to the Graduate Certificate.

2.4.3 A candidate who has been admitted to the Graduate Certificate in Environmental Policy and Management and who subsequently satisfies

the requirements for the Graduate Diploma must surrender the Graduate Certificate before being admitted to the Graduate Diploma.

2.4.4 A candidate for the degree of Master of Environmental Policy and Management who does not complete the requirements of the degree, but who satisfies the requirement for the Graduate Diploma may be admitted to the Graduate Diploma.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Graduate Diploma: Pass with High Distinction, Pass with Distinction, Pass with Credit, and Pass.

3.2 a 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.

b For the purpose of this Rule, a candidate who is refused permission to be assessed by examination or otherwise shall be deemed to have failed the course.

3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the Graduate Diploma a candidate shall satisfactorily complete courses to the value of 24 units, as follows:

#### 4.1.1 Core course

GEST 5002 Environmental Planning and Governance.....6

#### 4.1.2 Elective courses

All candidates shall complete elective courses to the value of 18 units selected from the following:

GEST 5001 Research Design and Methods.....6

GEST 5003 Environmental Impact Assessment .....6

GEST 5004 Environmental Economics & Policy ....6

GEST 5005 Community Engagement .....6

GEST 5006 People and Environment

in the Asia-Pacific Region .....6

4.1.3 Where the core course is not available in a given semester, students may, in consultation with the program coordinator, substitute an additional

elective course to satisfy the requirements of the Graduate Diploma.

#### **4.2 Unacceptable combinations of courses**

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

#### **4.3 Graduation**

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

### **5 Special circumstances**

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

## 1 Duration of program

To qualify for the Graduate Diploma, an oncampus candidate shall normally complete the program in one year, based on a study load of 24 units per year. An online candidate shall normally complete the program in two years, based on a study load of 12 units per year.

## 2 Admission

2.1 An applicant for admission to the academic program for the Graduate Diploma in Gastronomy shall have qualified for a degree of the University or a degree of another institution accepted by the Faculty for the purpose as equivalent to a degree of the University. Selection into the program is based on previous academic achievement.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the Graduate Diploma a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the Graduate Diploma.

### 2.3 Status, exemption and credit transfer

2.3.1 Except with special permission of the Faculty, no candidate will be granted status for any course that he or she has presented for any award other than the Graduate Certificate in Gastronomy.

2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for graduate level studies.

2.3.3 In any case, no candidate will be awarded more than 6 units of status, except for those individuals who have completed the Graduate Certificate in Gastronomy.

2.3.4 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially by the Executive Dean of the Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

### 2.4 Articulation with other awards

2.4.1 A candidate for the Graduate Diploma in Gastronomy who does not complete the requirements for the Graduate Diploma but satisfies the requirements for the Graduate Certificate may be admitted to the Graduate Certificate.

2.4.2 A candidate who has been admitted to the Graduate Certificate in Gastronomy and who subsequently satisfies the requirements for the Graduate Diploma must surrender the Graduate Certificate before being admitted to the Graduate Diploma.

2.4.3 A candidate for the degree of Master of Arts (Studies in Gastronomy) who satisfies the requirements for the Graduate Diploma but who does not complete the requirements of the Master degree may be admitted to the Graduate Diploma.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Graduate Diploma: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 a 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.

b For the purpose of this Rule, a candidate who is refused permission to be assessed by examination or otherwise shall be deemed to have failed the course.

3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the Graduate Diploma, a candidate shall satisfactorily complete courses to the value of 24 units, as follows:

#### 4.1.1 Core course

All candidates shall complete the following core course:

GAST 5300 Principles of Gastronomy ..... 6

#### 4.1.2 Elective courses

All candidates shall complete three elective courses from the following:

GAST 5301 Food and Drink

in Contemporary Western Society ..... 6

GAST 5302 Gastronomy and Communication ..... 6

GAST 5303 Gastronomic Tourism ..... 6

GAST 5304 Food and Wine Technology ..... 6

GAST 5305 Asian Food History and Culture ..... 6

### 4.2 Unacceptable combinations of courses

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

### 4.3 Graduation

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

## 5 Special circumstances

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

## 1 Duration of program

To qualify for the Graduate Diploma, a candidate shall satisfactorily complete one year of full-time study or not more than two years of part-time study.

## 2 Admission

2.1 An applicant for admission to the program of study for the Graduate Diploma in International Studies shall have qualified for a degree of the University, or a degree of another institution accepted by the Faculty for the purpose as equivalent to a degree of the University. Selection into the program is based on previous academic achievement.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the Graduate Diploma a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the Graduate Diploma.

## 2.3 Status, exemption and credit transfer

2.3.1 Except with special permission of the Faculty, no candidate will be granted status for any course which he or she has completed for another award.

2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for graduate level studies.

2.3.3 In any case, no candidate will be awarded more than 6 units of status, except for those candidates who have completed the Graduate Certificate in International Studies (see Rule 2.4 below).

2.3.4 A candidate who fails a course and desires to repeat that course shall, unless exempted partially therefrom by the Executive Dean of Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

## 2.4 Articulation with other awards

2.4.1 A candidate for Graduate Diploma in International Studies who does not complete the requirements for the Graduate Diploma but satisfies the requirements for the Graduate Certificate may be admitted to the Graduate Certificate.

2.4.2 A candidate who has been admitted to the Graduate Certificate in International Studies and who subsequently satisfies the requirements for the Graduate Diploma must surrender the Graduate Certificate before being admitted to the Graduate Diploma.

2.4.3 A candidate for the degree of Master of Arts (International Studies) who does not complete the requirements of that degree, but who satisfies the requirements for the Graduate Diploma may be admitted to the Graduate Diploma.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Graduate Diploma: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 a 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.

b For the purpose of this Rule, a candidate who is refused permission to be assessed by examination or otherwise shall be deemed to have failed the course.

3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the Graduate Diploma, a candidate shall satisfactorily complete courses to the value of 24 units, chosen from the following:

#### 4.1.1 Core courses

Both core courses:

INST 5000 Approaches and Issues in International Studies.....	6
INST 5001 International Politics in the Post Cold War World.....	6

#### 4.1.2 Elective courses

Two elective courses chosen from the following:

BUSINESS 7001 International Challenges for Global Business .....	6
INST 5002 International Studies Topic A.....	6
INST 5003 International Studies Topic B.....	6
INST 5004 Regionalism and Multilateralism .....	6
INST 5005 Strategic Cultures and Unconventional Conflict .....	6
INST 5006 Intelligence and Security After the Cold War.....	6
INST 5007EX Themes in Intelligence & History ....	6
INST 5008 The Politics of War: Old and New.....	6
INST 5009 International Security.....	6

INST 5010 Perspectives on Nuclear Proliferation.....	6
INST 5011 Intelligence Analysis: Theory and Practice.....	6
INST 5012 Greater China.....	6
INST 5013 The Politics of Emotion.....	6
PHIL 5000 Applied Ethics.....	6
POLI 5001 The Politics of Health .....	6
POLI 5002 Adam Smith 1723-1790 & John Stuart Mill 1806-1873 .....	6
POLI 5003 How Much is Society Worth? .....	6

Students may present an additional core course as an elective.

#### **4.2 Unacceptable combinations of courses**

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

#### **4.3 Graduation**

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

### **5 Special circumstances**

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

# Graduate Diploma in Spatial Information Science

**Note: There will be no intake into this program in 2009.**

## 1 Duration of program

To qualify for the Graduate Diploma, a candidate shall satisfactorily complete one year of full-time study or not more than two years of part-time study.

## 2 Admission

2.1 An applicant for admission to the program of study for the Graduate Diploma in Spatial Information Science shall have qualified for a degree of the University or a degree of another institution accepted by the Faculty for the purpose as equivalent to a degree of the University. Selection into the program is based on previous academic achievement.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the Graduate Diploma a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the Graduate Diploma.

### 2.3 Status, exemption and credit transfer

2.3.1 Except with special permission of the Faculty, no candidate will be granted status for any course which he or she has completed for another award.

2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for graduate level studies.

2.3.3 In any case, no candidate will be awarded more than 6 units of status, except for those candidates who have completed the Graduate Certificate in Spatial Information Science (see Rule 2.4 below).

2.3.4 A candidate who fails a course and desires to repeat that course shall, unless exempted partially therefrom by the Executive Dean of Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

### 2.4 Articulation with other awards

2.4.1 A candidate for the Graduate Diploma in Spatial Information Science who does not complete the requirements for the Graduate Diploma but satisfies the requirements for the Graduate Certificate may be admitted to the Graduate Certificate.

2.4.2 A candidate who has been admitted to the Graduate Certificate in Spatial Information Science and who subsequently satisfies the requirements for the Graduate Diploma must surrender the Graduate Certificate before being admitted to the Graduate Diploma.

2.4.3 A candidate for the degree of Master of Spatial Information Science who does not complete the requirements of the degree, but who satisfies the requirements for the Graduate Diploma may be admitted to the Graduate Diploma.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Graduate Diploma: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 a 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.

b For the purpose of this Rule, a candidate who is refused permission to be assessed by examination or otherwise shall be deemed to have failed the course.

3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the Graduate Diploma, a candidate shall satisfactorily complete courses to a total of 24 units, as follows:

#### 4.1.1 Core courses

GISC 5008 Introduction to Spatial Data Models...	3
GISC 5009 Introduction to Spatial Information Systems .....	3
GISC 5011 Research Project SIS.....	6
GISC 5013 Introduction to Remote Sensing.....	3
GISC 5014 Advanced Geographical Information Systems .....	3

#### 4.1.2 Elective courses

6 units selected from the following

GISC 5001 Advanced Remote Sensing.....	3
GISC 5006 Field Sampling Techniques.....	3
GISC 5010 New Technologies in GIS .....	3
GISC 5012 Social Applications in GIS .....	3
GISC 5015 Special Topic in Spatial Data Models..	3
GISC 5016 Special Topic in Spatial Data Modelling and Analysis .....	3

Alternative courses may be made available as appropriate, depending on students' previous study or employment history.

#### **4.2 Unacceptable combinations of courses**

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

#### **4.3 Graduation**

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

### **5 Special circumstances**

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





## 1 General

- 1.1 This document must be read in conjunction with:
- the General Academic Program Rules for Master by Research Programs (see under Adelaide Graduate Centre, p.18) *and*
  - the Research Student Handbook published by the Adelaide Graduate Centre.

These documents explain procedures to be followed and contain guidelines on supervision and research for the degree of Doctor of Philosophy and the various Masters Degrees by Research, offered by the University.

All students must comply with both the General Academic Rules and the rules following below, and procedures outlined in the Research Student Handbook.

In addition to the General Academic Program Rules for Masters by Research degrees, in this publication, the following discipline specific rules apply.

## 2 Definition

A Masters thesis makes a contribution to existing scholarship through independent research and the critical application of knowledge in its field. It demonstrates a capacity to ask and answer appropriate questions based on a thorough understanding of relevant literature and sources. It is assessed on the quality of its research, its depth of understanding and its literary or musical presentation.

## 3 Admission

Further to Rule 4.1 of the General Academic Program Rules, an Honours degree in the respective discipline or approved cognate discipline, at II A or higher, will normally be required for admission to the degree of Master of Arts.

## 4 Submission of thesis

Further to Rule 8.3 of the General Academic Program Rules, the degree of Master of Arts shall not be awarded on the basis of a portfolio of publications in lieu of a research thesis.



# Master of Arts (Applied Linguistics)

## 1 Duration of program

To qualify for the degree, a candidate shall satisfactorily complete one and a half years of full-time study or not more than three years of part-time study.

## 2 Admission

2.1 An applicant for admission to the program of study for the degree of Master of Arts (Applied Linguistics) shall have:

- a qualified for a degree of the University, at an appropriate standard, or a degree of another institution accepted by the Faculty for the purpose as equivalent to a degree of the University *or*
- b qualified for a Graduate Diploma in Applied Linguistics at a Credit level or higher.

Selection into the program is based on previous academic achievement.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the degree a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the degree.

## 2.3 Status, exemption and credit transfer

2.3.1 Except with special permission of the Faculty, no candidate will be granted status for any course which he or she has completed for another award.

2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for graduate level studies.

2.3.3 In any case, no candidate will be awarded more than 12 units of status, except for those candidates who have completed the Graduate Diploma in Applied Linguistics (see Rule 2.3 below).

2.3.4 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially therefrom by the Executive Dean of Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

## 2.4 Articulation with other awards

2.4.1 A candidate for the Master of Arts (Applied Linguistics) who does not complete the requirements for the Masters degree but satisfies the requirements for the Graduate Certificate or Graduate Diploma may be admitted to one or other of those awards as appropriate.

2.4.2 A candidate who has been admitted to the Graduate Diploma in Applied Linguistics and

who subsequently satisfies the requirements for the Master of Arts (Applied Linguistics) must surrender the Graduate Diploma before being admitted to the Masters degree.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the degree of Master of Arts (Applied Linguistics): Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 a 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.

b For the purpose of this Rule, a candidate who is refused permission to be assessed by examination or otherwise shall be deemed to have failed the course.

3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

3.4 A candidate shall complete the coursework component of the degree with a credit average, before proceeding to the research component of the degree. A candidate who is not eligible to undertake the research component, but has satisfied the requirements for the Graduate Certificate or Graduate Diploma may be admitted to one or other of those awards as appropriate.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the degree, a candidate shall satisfactorily complete courses to the value of 36 units, comprising courses to the value of 24 units chosen from the list below, and the Dissertation:

LING 5001 Computer Assisted Language Learning - CALL .....	6
LING 5004 Language and Meaning .....	6
LING 5008 Language and the Environment.....	6
LING 5009 Language Teaching in Specific Settings.....	6
LING 5010 English for Academic Purposes.....	6
LING 5011 Language and Learning.....	6
LING 5017 Language Teaching Methods: TESOL/LOTE/Literacy.....	6
LING 5030 Language and Communication Planning .....	6
LING 5059 Special Topic in Linguistics .....	6

4.1.1 No candidate will be permitted to count for the award any course that, in the opinion of the Faculty, contains substantially the same material as any other course which he or she has already presented for another award.

#### **4.1.2 Dissertation**

All candidates shall complete either the full-time or the part-time version of the dissertation:

LING 5501 Dissertation in Linguistics (F/T)..... 12

*or*

LING 5502 A/B Dissertation in Linguistics (P/T)... 12

4.2 To be eligible to have the degree conferred, candidates are required to provide three bound copies of the dissertation to the Faculty, after it has been passed and accepted for the degree.

#### **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 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 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**

### Postgraduate Programs in Applied Linguistics

Within the Faculty of Humanities and Social Sciences, the Discipline of Linguistics provides a context for graduates in Applied Linguistics to take personal responsibility for developing the following attributes:

- A knowledge of the cultural nature of language and the role of language in human communication
- A specialised understanding of selected topics in Applied Linguistics related to communication in society and language education
- The ability to identify characteristic language features of social practices
- The skills to analyse in a principled way different texts and the rhetorical effects of linguistic choices
- The skills to plan and conduct applied linguistic research into language practices, applying appropriate research procedures
- An understanding of ethical issues in professional contexts and in the wider community
- An awareness of linguistic diversity and cross-cultural communication
- An understanding of language policy, language planning and related social justice issues.

## 1 Duration of program

To qualify for the degree, a candidate shall satisfactorily complete a program of study comprising one and a half years of full-time study or not more than three years of part-time study.

## 2 Admission

- 2.1 An applicant for admission to the program of study for the degree of Master of Arts (Creative Writing) shall have:
- a qualified for a degree of the University, at an appropriate standard, or a degree of another institution accepted by the Faculty for the purpose as equivalent to a degree of the University  
*or*
  - b qualified for a Graduate Diploma in Creative Writing at credit level or higher  
*or*
  - c qualified for Honours in Creative Writing at IIA level or higher
  - d presented a suitable portfolio of creative writing.

Selection into the program is based on previous academic achievement and assessment of the portfolio of creative writing.

- 2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the degree a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the degree.

## 2.3 Status, exemption and credit transfer

- 2.3.1 Except with special permission of the Faculty, no candidate will be granted status for any course which he or she has completed for another award.
- 2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for:
- a graduate level studies  
*or*
  - b the completion of the core courses ENGL 5001 and ENGL 5002 by those candidates who have completed an Honours degree in Creative Writing or English at IIA level or higher.
- 2.3.3 In any case, no candidate will be awarded more than 12 units of status, except those candidates who have completed the Graduate Diploma in Creative Writing (see Rule 2.4 below)

- 2.3.4 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially therefrom by the Executive Dean of the Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

## 2.4 Articulation with other awards

- 2.4.1 A candidate for the Master of Arts (Creative Writing) who does not complete the requirements for the Masters degree but satisfies the requirements for the Graduate Certificate or Graduate Diploma may be admitted to one or other of those awards as appropriate.
- 2.4.2 A candidate who has been admitted to the Graduate Diploma in Creative Writing and who subsequently satisfies the requirements for the Master of Arts (Creative Writing) must surrender the Graduate Diploma before being admitted to the Master degree.

## 3 Assessment and examinations

- 3.1 There shall be four classifications of pass in any course for the Masters degree: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.
- 3.2
- a 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.
  - b For the purpose of this Rule, a candidate who is refused permission to be assessed by examination or otherwise shall be deemed to have failed the course.
- 3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.
- 3.4 A candidate shall complete 24 units of core coursework with a Distinction average, before proceeding to the research component of the degree. A candidate who is not eligible to undertake the research component, but has satisfied the requirements for the Graduate Certificate or Graduate Diploma may be admitted to one or other of those awards as appropriate.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the degree of Master of Arts (Creative Writing), a candidate shall satisfactorily complete courses to the value of 36 units, as follows:

#### 4.1.1 Core courses

All candidates shall complete the following courses:

ENGL 5005 Writing Process .....	6
ENGL 5006 Thinking Aloud .....	6
ENGL 5007 Genre Practice.....	6
ENGL 5008 Genre Study .....	6

#### 4.1.2 Dissertation

All candidates shall complete the following course:

ENGL 5500 Portfolio Supervision and Workshop.....	12
--	----

4.2 To be eligible to have the degree conferred, candidates are required to provide three bound copies of the dissertation to the Faculty, after it has been passed and accepted for the degree.

#### 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 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 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**

### Postgraduate Programs in Creative Writing

- Ability to think creatively and critically
- Ability to communicate concepts and ideas through writing and discussion
- Specialised knowledge of contemporary writing in chosen genre
- Integration of research skills into creative forms
- Ability to set goals and work to deadlines
- Ability to work independently and cooperatively
- An understanding of ethical issues in the writing profession
- Ability to revise and edit manuscripts, and an understanding of publishing issues and opportunities
- Ability to read texts for context, meaning and technique
- Ability to apply specialized knowledge of contemporary writing practices in chosen genre
- Ability to edit and revise manuscripts at advanced levels.



# Master of Arts (Curatorial and Museum Studies)

## 1 Duration of program

To qualify for the degree, a candidate shall satisfactorily complete a course of study comprising three semesters of full-time study or no more than three years of part-time study.

## 2 Admission

- 2.1 An applicant for admission to the academic program for the degree of Master of Arts (Curatorial and Museum Studies) shall:
- have qualified for an Honours degree of the University at IIA level or higher, in an appropriate field of study, or a degree of another institution accepted by the Faculty for the purpose as equivalent to a degree of the University  
*or*
  - have qualified for the Graduate Diploma in Art History with overall average results of 70% or higher.
- 2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the degree a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the degree.
- ### 2.3 Status, exemption and credit transfer
- 2.3.1 Except with special permission of the Faculty, no candidate will be granted status for any course that he or she has presented for any award other than the Graduate Diploma in Art History (see Rule 2.4 below).
- 2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for graduate level studies.
- 2.3.3 In any case, no candidate will be awarded more than 12 units of status, except for those candidates who have completed the Graduate Diploma in Art History.
- 2.3.4 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially therefrom by the Executive Dean of the Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.
- ### 2.4 Articulation with other awards
- 2.4.1 A candidate for the Master of Arts (Curatorial and Museum Studies) who does not complete the requirements for the Masters degree but satisfies the requirements for the Professional Certificate, Graduate Certificate or Graduate Diploma in Art History may be admitted to one or other of those awards as appropriate.

- 2.4.2 A candidate who has been admitted to the Graduate Diploma in Art History and who subsequently satisfies the requirements for the Master of Arts (Curatorial and Museum Studies) must surrender the Graduate Diploma before being admitted to the Master degree.

## 3 Assessment and examinations

- 3.1 There shall be four classifications of pass in any course for the Masters degree: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.
- 3.2
- 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.
  - Permission to be assessed by examination or otherwise shall be deemed to have failed the course.
- 3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.
- 3.4 A candidate shall complete the requirements of 4.1.1 and 4.1.2 (coursework component) below with overall average results of 70% or higher, before being permitted to proceed to the requirements of 4.1.4 (research project component) of the degree. A candidate may commence the requirements of 4.1.4 (research project component) having completed only 12 units of the requirements of 4.1.1 and 4.1.2 (coursework component) if their overall average results for those 12 units are 70% or higher. A candidate who is not eligible to undertake the research project component, but who has satisfied the requirements for the Professional Certificate, Graduate Certificate or Graduate Diploma in Art History may be admitted to one or other of those awards as appropriate.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the degree, a candidate shall satisfactorily complete courses to the value of 36 units, chosen as follows:

#### 4.1.1 Core course

- One course from the following:
- |   |   |
|---|---|
| ARTH 5202 Studies in Asian Art.....       | 6 |
| ARTH 5203 Studies in Australian Art ..... | 6 |
| ARTH 5204 Studies in European Art         |   |
| Since the Renaissance .....               | 6 |



#### 4.1.2 Elective courses

Three courses from the following:

ARTH 5200 Studies in European Paintings Connoisseurship .....	6
ARTH 5201 Studies in Australian Colonial Art .....	6
ARTH 5208 Studies in Contemporary Art .....	6
ARTH 5209 Studies in Australian Indigenous Art .....	6
ARTH 5210 Studies in British Art .....	6
ARTH 5211 Studies in Decorative Arts .....	6
ARTH 5212 Studies in Japanese Art .....	6
ARTH 5213 Studies in South-East Asian Art .....	6
ARTH 5214 Studies in Modern Art .....	6

4.1.3 Students may also present another core course from those listed in 4.1.1 as an elective.

#### 4.1.4 Research project

All candidates shall complete a self initiated research project in each of:

ARTH 5522 Curatorial and Museum Studies A.....	6
ARTH 5523 Curatorial and Museum Studies B.....	6

#### 4.2 Unacceptable combinations of courses

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

#### 4.3 Graduation

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

### 5 Special circumstances

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

## **Graduate Attributes**

### Master of Curatorial and Museum Studies

- Familiarity with advanced debates in the field of International Studies
- Broad general knowledge of museums and collections
- Specialised understanding in the two courses in curatorial and museum studies
- An appreciation of their potential contribution to knowledge through engagement with the traditions and innovations in museology and curatorial practice
- The ability to work in the gallery/museum sector in a range of curatorial and collection management roles
- The skills and discipline to research, synthesise, organise and present information and display objects in the gallery sector, using a range of technologies as appropriate
- Problem solving skills including visual problem solving skills
- Analytical and critical skills
- The ability to argue from evidence
- The ability to think creatively
- The ability to communicate written and verbal ideas effectively in the gallery sector
- The ability to set appropriate goals and to work independently
- An understanding of the importance of lifelong learning
- An understanding of ethical issues in their professional and intellectual contexts including the gallery/museum situation
- An awareness of their potential leadership roles in the community of gallery and museum professionals
- An awareness of social justice issues.

## 1 Duration of program

To qualify for the degree, an oncampus candidate shall normally complete the program in one and half years, based on a study load of 24 units per year. An online candidate shall normally complete the program in three years, based on a study load of 12 units per year.

## 2 Admission

- 2.1 An applicant for admission to the academic program for the degree of Master of Arts (Gastronomy) shall:
- have qualified for a degree of the University, at an appropriate standard in an approved field of study, or a degree of another institution accepted by the Faculty for the purpose as equivalent to a degree of the University *or*
  - have qualified for the Graduate Diploma in Gastronomy with overall average results of 70% or higher.

Selection into the program is based on previous academic achievement.

- 2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the degree a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the degree.

### 2.3 Status, exemption and credit transfer

- 2.3.1 Except with special permission of the Faculty, no candidate will be granted status for any course that he or she has presented for any award other than the Graduate Diploma in Gastronomy (see Rule 2.4 below).
- 2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for graduate level studies.
- 2.3.3 In any case, no candidate will be awarded more than 12 units of status, except for those candidates who have completed the Graduate Diploma in Gastronomy.
- 2.3.4 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially therefrom by the Executive Dean of the Faculty again complete the required work in the course to the satisfaction of the teaching staff concerned.

### 2.4 Articulation with other awards

- 2.4.1 A candidate for the Master of Arts (Gastronomy) who does not complete the requirements for the Masters degree but satisfies the requirements for the Graduate Certificate or Graduate Diploma may be admitted to one or other of those awards as appropriate.

- 2.4.2 A candidate who has been admitted to the Graduate Diploma in Gastronomy and who subsequently satisfies the requirements for the Master of Arts (Gastronomy) must surrender the Graduate Diploma before being admitted to the Master degree.

## 3 Assessment and examinations

- 3.1 There shall be four classifications of pass in any course for the Masters degree: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.
- 3.2
- 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.
  - For the purpose of this Rule, a candidate who is refused permission to be assessed by examination or otherwise shall be deemed to have failed the course.
- 3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.
- 3.4 A candidate shall complete the coursework component of the degree with overall average results of 70% or higher, before proceeding to the research component of the degree. A candidate who is not eligible to undertake the research component, but has satisfied the requirements for the Professional Certificate, Graduate Certificate or Graduate Diploma may be admitted to one or other of those awards as appropriate.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the degree, a candidate shall satisfactorily complete courses to the value of 36 units, as follows:

#### 4.1.1 Core courses

All candidates shall complete the following core course:

GAST 5300 Principles of Gastronomy ..... 6

#### 4.1.2 Elective courses

All candidates shall complete three elective courses from the following:

GAST 5301 Food and Drink  
in Contemporary Western Society ..... 6

GAST 5302 Gastronomy and Communication ..... 6

GAST 5303 Gastronomic Tourism ..... 6

GAST 5304 Food and Wine Technology ..... 6

GAST 5305 Asian Food History and Culture ..... 6

#### **4.1.3 Dissertation/Research Projects**

All candidates shall complete either the full-time or the part-time version of the dissertation:

GAST 5530 Dissertation in Gastronomy F/T ..... 12

GAST 5531 A/B Dissertation in Gastronomy P/T.. 12

*or*

two research projects to a total of 12 units:

GAST 5532 Research Project in Gastronomy A.....6

GAST 5533 Research Project in Gastronomy B.....6

#### **4.2 Unacceptable combinations of courses**

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

#### **4.3 Graduation**

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

### **5 Special circumstances**

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

## Graduate Attributes

### Postgraduate Programs in Le Cordon Bleu Gastronomy

The Faculty of Humanities and Social Sciences facilitates an environment in which graduates of the Graduate Program in Gastronomy are encouraged to take personal responsibility for developing the following attributes:

- Broad general knowledge of the history and culture of food and drink
- Specialised understanding in one or two chosen topics in this general area
- 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.



# Master of Arts (International Studies)

## 1 Duration of program

To qualify for the degree, a candidate shall satisfactorily complete a program of study comprising three semesters of full-time study or not more than three years of part-time study.

## 2 Admission

2.1 An applicant for admission to the program of study for the degree of Master of Arts (International Studies) shall:

- a have qualified for a degree of the University, at an appropriate standard, or a degree of another institution accepted by the Faculty for the purpose as equivalent to a degree of the University *or*
- b have qualified for the Graduate Diploma in International Studies at Credit level or higher.

Selection into the program is based on previous academic achievement.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the degree a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the degree.

## 2.3 Status, exemption and credit transfer

2.3.1 Except with special permission of the Faculty, no candidate will be granted status for any course which he or she has completed for another award.

2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for graduate level studies.

2.3.3 In any case, no candidate will be awarded more than 12 units of status, except for those candidates who have completed the Graduate Diploma in International Studies (see Rule 2.4 below).

2.3.4 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially therefrom by the Executive Dean of Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

## 2.4 Articulation with other awards

2.4.1 A candidate for the Master of Arts (International Studies) who does not complete the requirements for the Masters degree but satisfies the requirements for the Graduate Certificate or Graduate Diploma may be admitted to one or other of those awards as appropriate.

2.4.2 A candidate who has been admitted to the of Graduate Diploma in International Studies and who subsequently satisfies the requirements for the Master of Arts (International Studies) must surrender the Graduate Diploma before being admitted to the Masters degree.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the degree of Master of Arts (International Studies): Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 a 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.

b For the purpose of this Rule, a candidate who is refused permission to be assessed by examination or otherwise shall be deemed to have failed the course.

3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

3.4 A candidate shall complete the coursework component of the degree with a credit average, before proceeding to the research component of the degree. A candidate who is not eligible to undertake the research component, but has satisfied the requirements for the Graduate Certificate or Graduate Diploma may be admitted to one or other of those awards as appropriate.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the degree of Master of Arts (International Studies), a candidate shall satisfactorily complete courses to the value of 36 units, as follows:

#### 4.1.1 Core courses

All candidates shall satisfactorily complete courses to the value of 24 units, chosen from the following:

Both core courses:

INST 5000 Approaches and Issues in International Studies.....	6
INST 5001 International Politics in the Post Cold War World.....	6

#### 4.1.2 Elective courses

Two electives courses chosen from the following:

BUSINESS 7001 International Challenges for Global Business .....	6
INST 5002 International Studies Topic A.....	6
INST 5003 International Studies Topic B.....	6
INST 5004 Regionalism and Multilateralism .....	6
INST 5005 Strategic Cultures and Unconventional Conflict .....	6
INST 5006 Intelligence and Security After the Cold War.....	6
INST 5007EX Themes in Intelligence & History ....	6
INST 5008 The Politics of War: Old and New.....	6
INST 5009 International Security .....	6
INST 5010 Perspectives on Nuclear Proliferation.....	6
INST 5011 Intelligence Analysis: Theory and Practice.....	6
INST 5012 Greater China.....	6
INST 5013 The Politics of Emotion.....	6
PHIL 5000 Applied Ethics.....	6
POLI 5001 The Politics of Health .....	6
POLI 5002 Adam Smith 1723-1790 & John Stuart Mill 1806-1873 .....	6
POLI 5003 How Much is Society Worth? .....	6

Students may present an additional core course as an elective.

#### 4.1.3 Dissertation

All candidates shall complete either the full-time or the part-time version of the dissertation:

INST 5500 Dissertation in International Studies F/T.....	12
INST 5501 A/B Dissertation in International Studies P/T .....	12

4.2 To be eligible to have the degree conferred, candidates are required to provide three bound copies of the dissertation to the Faculty, after it has been passed and accepted for the degree

#### 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 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 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**

### Postgraduate Programs in International Studies

The Faculty of Humanities and Social Sciences facilitates an environment in which postgraduate students in International Studies are encouraged to take personal responsibility for developing the following attributes:

- Familiarity with advanced debates in the field of International Studies
- Knowledge of sub-themes of International Studies that are currently significant, including the places of international relations, politics of culture, political economy, security studies, international justice and ethics, and history
- Greater sensitivity to inter-cultural understanding
- Being better equipped for independent study and research work
- Further development of effective communications skills
- The nurturing of independent thought, creativity and critical judgement
- Understanding of ethical issues in the field and within the broader national and international communities.



# Master of Arts (Studies in Art History)

## 1 Duration of program

To qualify for the degree, a candidate shall satisfactorily complete a course of study comprising three semesters of full-time study or no more than three years of part-time study.

## 2 Admission

2.1 An applicant for admission to the academic program for the degree of Master of Arts (Studies in Art History) shall:

- a have qualified for an Honours degree of the University at IIA level or higher, in an appropriate field of study, or a degree of another institution accepted by the Faculty for the purpose as equivalent to a degree of the University *or*
- b have qualified for the Graduate Diploma in Art History with results of at Distinction level or higher.

Selection into the program is based on previous academic achievement.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the degree a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the degree.

## 2.3 Status, exemption and credit transfer

2.3.1 Except with special permission of the Faculty, no candidate will be granted status for any course that he or she has presented for any award other than the Graduate Diploma in Art History (see Rule 2.4 below).

2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for graduate level studies.

2.3.3 In any case, no candidate will be awarded more than 12 units of status, except for those candidates who have completed the Graduate Diploma in Art History.

2.3.4 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially therefrom by the Executive Dean of the Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

## 2.4 Articulation with other awards

2.4.1 A candidate for the Master of Arts (Studies in Art History) who does not complete the requirements for the Masters degree but satisfies the requirements for the Graduate Certificate or Graduate Diploma may be admitted to one or other of those awards as appropriate.

2.4.2 A candidate who has been admitted to the Graduate Diploma in Art History and who subsequently satisfies the requirements for the Master of Arts (Studies in Art History) must surrender the Graduate Diploma before being admitted to the Master degree.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Masters degree: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 a 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.

b For the purpose of this Rule, a candidate who is refused permission to be assessed by examination or otherwise shall be deemed to have failed the course.

3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

3.4 A candidate shall complete the coursework component of the degree with a Distinction average, before proceeding to the research component of the degree. A candidate who is not eligible to undertake the research component, but has satisfied the requirements for the Professional Certificate, Graduate Certificate or Graduate Diploma may be admitted to one or other of those awards as appropriate.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the degree, a candidate shall satisfactorily complete courses to the value of 36 units, chosen as follows:

#### 4.1.1 Core course

One course from the following:

ARTH 5202 Studies in Asian Art.....	6
ARTH 5203 Studies in Australian Art .....	6
ARTH 5204 Studies in European Art	
Since the Renaissance .....	6

#### 4.1.2 Elective courses

Three courses from the following:

ARTH 5200 Studies in European Paintings Connoisseurship .....	6
ARTH 5201 Studies in Australian Colonial Art .....	6
ARTH 5208 Studies in Contemporary Art .....	6
ARTH 5209 Studies in Australian Indigenous Art...	6
ARTH 5210 Studies in British Art .....	6
ARTH 5211 Studies in Decorative Arts .....	6
ARTH 5212 Studies in Japanese Art .....	6
ARTH 5213 Studies in South-East Asian Art.....	6
ARTH 5214 Studies in Modern Art.....	6

4.1.3 Students may also present another core course from those listed in 4.1.1 as an elective.

#### 4.1.4 Dissertation/research project

All candidates shall complete either the full-time or the part-time version of the dissertation:

ARTH 5520 Research Project in Art History F/T ...	12
ARTH 5521 A/B Research Project in Art History P/T.....	12

4.2 To be eligible to have the degree conferred candidates are required to provide three bound copies of the dissertation to the Faculty, after it has been passed and accepted for the degree.

#### 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 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 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

### Postgraduate Programs in Art History

The Faculty of Humanities and Social Sciences facilitates an environment in which postgraduate students in Art History are encouraged to take personal responsibility for developing the following attributes:

- Broad general knowledge of art history and culture and of art museums and collections
- Specialised understanding in four Graduate Diploma course areas and in the MA coursework thesis topic area
- An appreciation of their potential contribution to knowledge through engagement with the traditions and innovations in art Historical scholarship and curatorial practice
- The skills and discipline to research, synthesise, organise and present information, using a range of technologies as appropriate
- Problem solving skills including visual problem solving skills
- Analytic and critical skills
- The ability to argue from evidence
- The ability to think creatively
- The ability to communicate written and verbal 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 including the gallery/museum situation
- An awareness of their potential leadership roles in the community of scholars and in the wider visual arts community
- An awareness of social justice issues.



# Master of Arts (Studies in Art History) and Master of Arts (Curatorial and Museum Studies)

## 1 Duration of program

To qualify for the degree, a candidate shall satisfactorily complete four semesters of full-time study or no more than four years of part-time study.

## 2 Admission

2.1 An applicant for admission to the academic program for the combined degree of Master of Arts (Studies in Art History) and Master of Arts (Curatorial and Museum Studies) shall:

- a have qualified for an Honours degree of the University at IIA level or higher, in an appropriate field of study, or a degree at another institution accepted by the Faculty for the purpose as equivalent to a degree of the University *or*
- b have qualified for the Graduate Diploma in Art History with results of a Distinction level average or higher.

Selection into the program is based on previous academic achievement.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the degree a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the degree.

## 2.3 Status, exemption and credit transfer

2.3.1 Except with special permission of the Faculty, no candidate will be granted status for any course that he or she has presented for another award other than the Graduate Diploma in Art History (see rule 2.4 below).

2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for graduate level studies.

2.3.3 In any case, no candidate will be awarded more than 12 units of status, except for those candidates who have completed the Graduate Diploma in Art History.

2.3.4 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially therefrom by the Executive Dean of the Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

## 2.4 Articulation with other awards

2.4.1 A candidate for the Master of Arts (Studies in Art History) and Master of Arts (Curatorial and Museum Studies) who does not complete the requirements for the Masters degree but satisfies the requirements for the Master of Arts (Studies in

Art History), or the Master of Arts (Curatorial and Museum Studies) may be admitted to one or other of those awards as appropriate.

2.4.2 A candidate who has been admitted to the Graduate Diploma in Art History, Master of Arts (Studies in Art History), or the Master of Arts (Curatorial and Museum Studies) and who subsequently satisfies the requirements for the Master of Arts (Studies in Art History) and Master of Arts (Curatorial and Museum Studies) must surrender the Graduate Diploma or Masters award before being admitted to the Master of Arts (Studies in Art History) and Master of Arts (Curatorial and Museum Studies) combined degree.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Masters degree: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

- 3.2 a 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.
- b For the purpose of this Rule, a candidate who is refused permission to be assessed by examination or otherwise shall be deemed to have failed the course.

3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

3.4 A candidate shall complete the coursework component of the degree with a Distinction average, before proceeding to the Art History research component of the degree; and a candidate shall complete the coursework component of the degree with a Distinction average before proceeding to the Curatorial and Museum Studies research component of the degree. A candidate who is not eligible to undertake the research component, but has satisfied the requirements for the Professional Certificate, Graduate Certificate or Graduate Diploma in Art History may be admitted to one or other of those awards as appropriate.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the degree, a candidate shall satisfactorily complete courses to the value of 48 units, as follows:

#### 4.1.1 Core courses

One course from the following:

ARTH 5202 Studies in Asian Art .....	6
ARTH 5203 Studies in Australian Art.....	6
ARTH 5204 Studies in European Art Since the Renaissance .....	6

#### 4.1.2 Elective courses

Three courses from the following:

ARTH 5200 Studies in European Paintings Connoisseurship .....	6
ARTH 5201 Studies in Australian Colonial Art....	6
ARTH 5208 Studies in Contemporary Art.....	6
ARTH 5209 Studies in Australian Indigenous Art.....	6
ARTH 5210 Studies in British Art.....	6
ARTH 5211 Studies in Decorative Arts.....	6
ARTH 5212 Studies in Japanese Art .....	6
ARTH 5213 Studies in South-East Asian Art .....	6
ARTH 5214 Studies in Modern Art .....	6

4.1.3 Students may also present another core course from those listed in 4.1.1 as an elective

#### 4.1.4 Dissertation/ research project

All candidates shall complete either the fulltime or part-time version of the dissertation:

ARTH 5520 Research Project in Art History F/T .....	12
ARTH 5521 A/B Research Project in Art History P/T .....	12

To be eligible to have the degree conferred candidates are required to provide three bound copies of the dissertation to the Faculty, after it has been passed and accepted for the degree.

#### 4.1.5. Research project

All candidates shall complete a self initiated research project in each of:

ARTH 5522 Curatorial and Museum Studies A ...	6
ARTH 5523 Curatorial and Museum Studies B ...	6

#### 4.2 Unacceptable combinations of courses

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

#### 4.3 Graduation

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

## 5 Special circumstances

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

## **Graduate Attributes**

Master of Arts (Studies in Art History) and  
Master of Arts (Curatorial and Museum Studies)

- Broad general knowledge of art history and museums and collections
- Specialised understanding in the four courses in art history and in the MA coursework thesis topic area
- Specialised understanding in the two courses of curatorial and museum studies
- An appreciation of the potential contribution to knowledge through engagement with the traditions and innovations in Art Historical scholarship, museology and curatorial practice
- The ability to work in the gallery/museum sector in a range of curatorial and collection management roles
- The skills and discipline to research, synthesise, organise and present information using a range of technologies as appropriate, and relating to the display of objects in the gallery sector
- Problem solving skills including visual problem solving skills
- Analytical and critical skills
- The ability to argue from evidence
- The ability to think creatively
- The ability to communicate written and verbal ideas succinctly and effectively
- The ability to set appropriate goals and to work independently.

## 1 Duration of program

To qualify for the degree, a candidate shall satisfactorily complete a program of study comprising three semesters of full-time study or not more than three years of part-time study.

## 2 Admission

2.1 An applicant for admission to the program of study for the Master of Environmental Policy and Management degree must have:

- a qualified for a degree from the University, at an appropriate standard in a degree of another institution accepted by the Faculty for the purpose as equivalent to a degree of the University *or*
- b completed the Graduate Diploma in Environmental Policy and Management at Credit level or higher.

Selection into the program is based on previous academic achievement.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the degree a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the degree.

### 2.3 Status, exemption and credit transfer

2.3.1 Except with special permission of the Faculty, no candidate will be granted status for any course which he or she has completed for another award.

2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for graduate level studies.

2.3.3 In any case, no candidate will be awarded more than 12 units of status, except for those candidates who have completed the Graduate Diploma in Environmental Policy and Management.

2.3.4 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially therefrom by the Executive Dean of Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

### 2.4 Articulation with other awards

2.4.1 A candidate for the Master of Environmental Policy and Management who does not complete the requirements for the Masters degree but satisfies the requirements for the Graduate Certificate or Graduate Diploma may be admitted to one or other of those awards as appropriate.

2.4.2 A candidate who has been admitted to the Graduate Diploma in Environmental Policy and Management and who subsequently satisfies the requirements for the Master of Environmental Policy and Management must surrender the Graduate Diploma before being admitted to the Master degree.

2.4.3 A candidate who has been admitted to the Graduate Diploma in Environmental Policy and Management and who subsequently satisfies the requirements for the Master of Environmental Policy and Management (Applied) must surrender the Graduate Diploma before being admitted to the Master degree.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Masters degree: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 a 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.

b For the purpose of this Rule, a candidate who is refused permission to be assessed by examination or otherwise shall be deemed to have failed the course.

3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

3.4 A candidate shall complete the coursework component of the degree with a credit average, before proceeding to the research component of the degree. A candidate who is not eligible to undertake the research component, but has satisfied the requirements for the Graduate Certificate or Graduate Diploma may be admitted to one or other of those awards as appropriate.

## 4 Qualification requirements

### 4.1 Program of study

To qualify for the degree of Master of Environmental Policy and Management candidates shall complete a program of study to a total of 36 units as follows:

#### 4.1.1 Core courses

GEST 5001 Research Design and Methods.....	6
GEST 5002 Environmental Planning and Governance.....	6

#### 4.1.2 Elective courses

All candidates shall complete elective courses to the value of 12 units selected from the following:

GEST 5003 Environmental Impact Assessment ...	6
GEST 5004 Environmental Economics & Policy ....	6
GEST 5005 Community Engagement .....	6
GEST 5006 People and Environment in the Asia-Pacific Region.....	6

#### 4.1.3 Dissertation

All candidates shall complete the following course:

GEST 5500 Dissertation Environmental Policy and Management F/T .....	12
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*or*

GEST 5501A/B Dissertation Environmental Policy and Management P/T .....	12
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4.1.4 Where the core course is not available in a given semester, students may, in consultation with the program coordinator, substitute an additional elective course to satisfy the requirements of the degree.

4.2 To be eligible to have the degree conferred, candidates are required to provide three bound copies of the dissertation to the Faculty, after the dissertation has been passed and accepted for the degree.

#### 4.3 Unacceptable combination of courses

No candidate will be permitted to count for the degree any course that, in the opinion of the Faculty, contains substantially the same material as any other course that he or she has already presented for another 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 relevant Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.



## 1 Duration of program

To qualify for the degree, a candidate shall satisfactorily complete a program of study comprising four semesters of full-time study or not more than four years of part-time study.

## 2 Admission

2.1 An applicant for admission to the program of study for the Master of Environmental Policy and Management (Applied) degree must have:

- a qualified for a degree from the University, at an appropriate standard in a degree of another institution accepted by the Faculty for the purpose as equivalent to a degree of the University  
*or*
- b completed the Graduate Diploma in Environmental Policy and Management at Credit level or higher.

Selection into the program is based on previous academic achievement.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the degree a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the degree.

### 2.3 Status, exemption and credit transfer

2.3.1 Except with special permission of the Faculty, no candidate will be granted status for any course which he or she has completed for another award.

2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for graduate level studies.

2.3.3 In any case, no candidate will be awarded more than 12 units of status, except for those candidates who have completed the Graduate Diploma in Environmental Policy and Management or the Master of Environmental Policy and Management.

2.3.4 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially therefrom by the Executive Dean of Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

### 2.4 Articulation with other awards

2.4.1 A candidate for the Master of Environmental Policy and Management (Applied) who does not complete the requirements for the Masters degree but satisfies the requirements for the Graduate Certificate or Graduate Diploma or

Master of Environmental Policy and Management may be admitted to one or other of those awards as appropriate.

2.4.2 A candidate who has been admitted to the Graduate Diploma in Environmental Policy and Management or the Master of Environmental Policy and Management and who subsequently satisfies the requirements for the Masters of Environmental Policy and Management (Applied) must surrender the Graduate Diploma or Masters degree before being admitted to the Master degree.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Masters degree: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 a 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.  
b For the purpose of this Rule, a candidate who is refused permission to be assessed by examination or otherwise shall be deemed to have failed the course.

3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

3.4 A candidate shall complete the coursework component of the degree with a credit average, before proceeding to the research component of the degree. A candidate who is not eligible to undertake the research component, but has satisfied the requirements for the Graduate Certificate or Graduate Diploma may be admitted to one or other of those awards as appropriate.

## 4 Qualification requirements

### 4.1 Program of study

To qualify for the degree of Master of Environmental Policy and Management (Applied) candidates shall complete a program of study to a total of 48 units as follows:

#### 4.1.1 Core courses

GEST 5001 Research Design and Methods.....	6
GEST 5002 Environmental Planning and Governance .....	6

#### 4.1.2 Elective courses

All candidates shall complete elective courses to the value of 12 units selected from the following:

GEST 5003 Environmental Impact Assessment ...	6
GEST 5004 Environmental Economics & Policy.....	6
GEST 5005 Community Engagement .....	6
GEST 5006 People and Environment in the Asia-Pacific Region .....	6

#### 4.1.3 Dissertation

All candidates shall complete the following course:

GEST 5500 Dissertation Environmental Policy and Management F/T .....	12
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*or*

GEST 5501A/B Dissertation Environmental Policy and Management P/T .....	12
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#### 4.1.4 Internship

All candidates shall complete the following course:

GEST 5502 Environmental Professional Internship.....	12
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*or*

GEST 5503 A/B Environmental Professional Internship.....	12
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4.1.5 Where the core course is not available in a given semester, students may, in consultation with the program coordinator, substitute an additional elective course to satisfy the requirements of the degree.

4.2 To be eligible to have the degree conferred, candidates are required to provide three bound copies of the dissertation to the Faculty, after the dissertation has been passed and accepted for the degree.

#### 4.3 Unacceptable combination of courses

No candidate will be permitted to count for the degree any course that, in the opinion of the Faculty, contains substantially the same material as any other course that he or she has already presented for another 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 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**

### Postgraduate Programs in Environmental Policy and Management

- Knowledge and understanding of internationally recognised best practice in environmental governance and management
- The ability to develop environmental management strategies by analysing, evaluating and synthesising information from a range of sources in a rigorous and efficient fashion
- The ability to apply effective, creative and innovative solutions to current and future environmental problems
- Skills in the use of empirical, negotiated and collaborative approaches to the development of environmental policy and the planning and implementation of environmental management projects
- Skills in the written and oral presentation of ideas and information relevant to environmental governance and management
- Proficiency in the use of contemporary information collection, compilation and analysis techniques relevant to environmental governance and management
- Proficiency in community consultation
- Life-long learning abilities and intellectual curiosity in the domain of society-environment relations
- Ability to demonstrate and maintain the highest standards of professional and ethical endeavour in environmental governance and management
- An awareness of the diverse economic and socio-cultural issues around the world and their implications for environmental problems.



# Master of Spatial Information Science

**Note: There will be no intake into this program in 2009.**

## 1 Duration of program

To qualify for the degree, a candidate shall satisfactorily complete a program of study comprising three semesters of full-time study or not more than three years of part-time study.

## 2 Admission

2.1 An applicant for admission to the program of study for the Master of Spatial Information Science degree must have:

- a qualified for a degree from the University at an acceptable standard in an appropriate field of study, or a degree of another institution accepted by the Faculty for the purpose as equivalent to a degree of the University *or*
- b completed the Graduate Diploma in Spatial Information Science at Credit level or higher.

Selection into the program is based on previous academic achievement.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the degree a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the degree.

## 2.3 Status, exemption and credit transfer

2.3.1 Except with special permission of the Faculty, no candidate will be granted status for any course which he or she has completed for another award.

2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for graduate level studies.

2.3.3 In any case, no candidate will be awarded more than 12 units of status, except for those candidates who have completed the Graduate Diploma in Spatial Information Science (see Rule 2.4 below).

2.3.4 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially therefrom by the Executive Dean of Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

## 2.4 Articulation with other awards

2.4.1 A candidate for the Master of Spatial Information Science who does not complete the requirements for the Masters degree but satisfies the requirements for the Graduate Certificate or Graduate Diploma may be admitted to one or other of those awards as appropriate.

2.4.2 A candidate who has been admitted to the of Graduate Diploma in Spatial Information Science and who subsequently satisfies the requirements for the Master of Spatial Information Science must surrender the Graduate Diploma before being admitted to the Master degree.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Masters degree: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 a 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.

b For the purpose of this Rule, a candidate who is refused permission to be assessed by examination or otherwise shall be deemed to have failed the course.

3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

3.4 A candidate shall complete the coursework component of the degree with a credit average, before proceeding to the research component of the degree. A candidate who is not eligible to undertake the research component, but has satisfied the requirements for the Graduate Certificate or Graduate Diploma may be admitted to one or other of those awards as appropriate.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the degree of Master of Spatial Information Science candidates shall complete a program of study to a total of 36 units as follows:

#### 4.1.1 Core courses

GISC 5008 Introduction to Spatial Data Models...	3
GISC 5009 Introduction to Spatial Information Systems .....	3
GISC 5011 Research Project SIS .....	6
GISC 5013 Introduction to Remote Sensing .....	3
GISC 5014 Advanced Geographical Information Systems .....	3

#### 4.1.2 Elective courses

6 units selected from the following:	
GISC 5001 Advanced Remote Sensing.....	3
GISC 5006 Field Sampling Techniques.....	3
GISC 5010 New Technologies in GIS .....	3

GISC 5012 Social Applications in GIS .....	3
GISC 5015 Special Topic in Spatial Data Models..	3
GISC 5016 Special Topic in Spatial Data Modelling and Analysis .....	3

Alternative courses may be made available as appropriate, depending on students' previous study or employment history.

#### **4.1.3 Research project**

All candidates shall complete either the full-time or the part-time version of the dissertation:

GISC 5501 Dissertation SIS F/T .....	12
GISC 5502 A/B Dissertation SIS P/T .....	12

4.2 To be eligible to have the degree conferred, candidates are required to provide three bound copies of the dissertation to the Faculty, after it has been passed and accepted for the degree.

#### **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 concerned, contains a substantial amount of the same material; and no course or portion of a course may be counted twice towards an award.

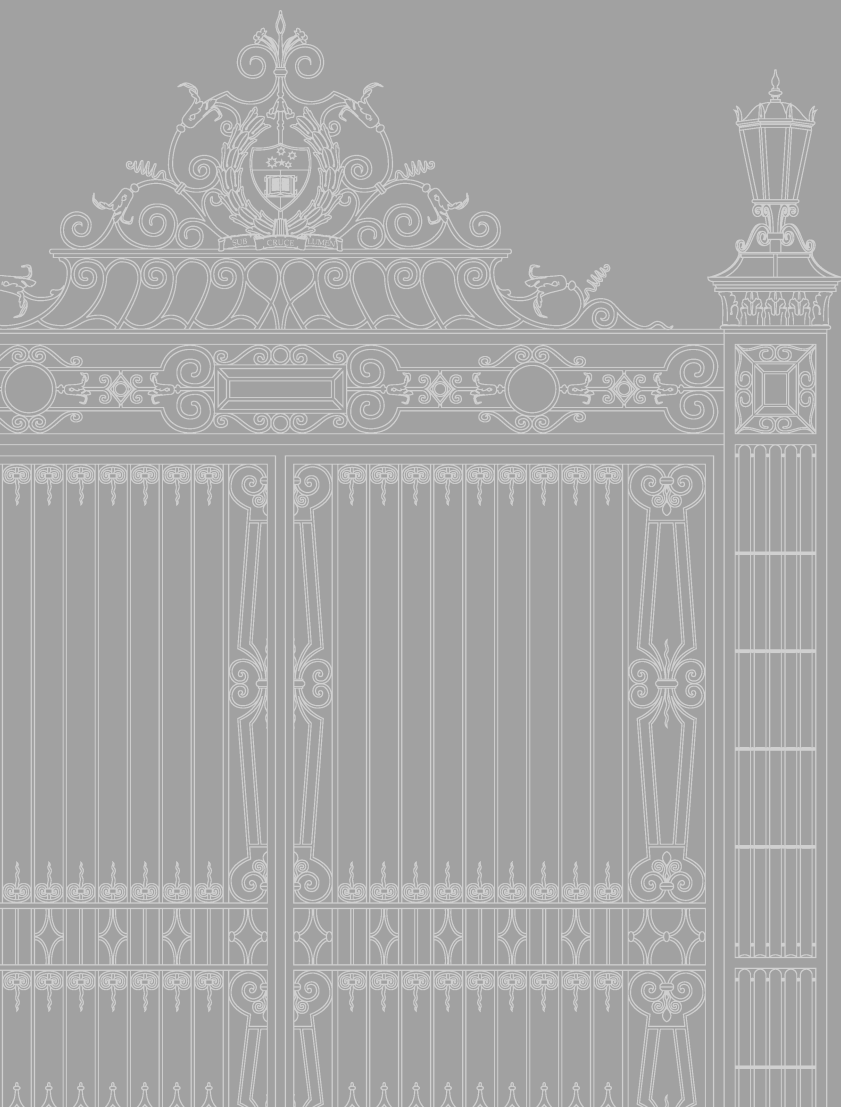
#### **4.4 Graduation**

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

## Law School

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- Master of Comparative Laws (Adelaide/Mannheim)
- Master of Laws (Coursework)
- Master of Laws/Master of Commerce (Accounting)
- Master of Laws/Master of Commerce (Applied Finance)
- Master of Laws/Master of Commerce (Marketing)
- Master 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.





# Professional Certificate in Mediation

## 1 Duration of course

To qualify for the Professional Certificate in Mediation, a candidate shall satisfactorily complete one semester of part-time study or the equivalent in intensive mode.

## 2 Admission

- 2.1 An applicant for admission to the academic program for the Professional Certificate in Mediation shall have qualified for a degree of the University or a degree of another institution accepted by the Faculty for the purpose as equivalent to a degree of the University.
- 2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the Professional Certificate in Mediation a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the Professional Certificate.
- ### 2.3 Status, exemption and credit transfer
- 2.3.1 Except with special permission of the Faculty, no candidate will be granted status for any course that he or she has presented for another award.
- 2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for graduate level studies.
- 2.3.3 In any case, no candidate will be awarded more than 4 points of status.
- 2.3.4 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially therefrom by the Executive Dean of the Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

## 3 Assessment and examinations

- 3.1 There shall be four classifications of pass in any subject for the Professional Certificate: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.
- 3.2 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

To qualify for the Professional Certificate, a candidate shall satisfactorily complete subjects to the value of 6 points, as follows:

## 4.1 Academic program

All candidates shall complete the following courses:

- LAW 5009 Alternative Dispute Resolution.....4  
LAW 5010 Accreditation for Mediators.....2

- 4.2 No candidate will be permitted to count for the Professional Certificate any course that, in the opinion of the Faculty, contains substantially the same material as any other course that he or she has already presented for another award.

## 4.3 Graduation

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

## 5 Special circumstances

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



## 1 Duration of Program

To qualify for the degree, a candidate shall satisfactorily complete a program of study comprising three semesters of full-time study or equivalent part-time. The maximum time permitted for completion of the program is eight years.

## 2 Admission

2.1 An applicant for admission to the academic program for the degree of Master of Business Law shall have qualified for a Bachelor degree of the University of Adelaide or a Bachelor of another institution accepted by the Faculty for the purpose as equivalent.

2.2 The Faculty may, subject to such conditions as it sees fit to impose in each case, accept as a candidate for the degree a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake the work for the degree.

## 2.3 Status, exemption and credit transfer

2.3.1 The Faculty may grant credit towards the program as follows:

- a up to a maximum of 18 units completed towards a comparable Master of Business Law degree of another tertiary institution accepted by the Faculty for the purpose as equivalent or
- b up to a maximum of 9 units completed towards a comparable degree of the University of Adelaide
- c up to a maximum of 12 units completed towards a Bachelor of Laws degree

2.3.2 A candidate, who fails a course and wishes to repeat that course shall, unless partially exempted by the Dean of the Law School or nominee, again complete the required work in the course to the satisfaction of the teaching staff concerned.

2.4 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 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Masters degree: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

4.1 A candidate shall satisfactorily complete courses from the Master of Business Law to the value of 36 units, as follows:

- a 12 units of Foundation courses
- b 24 units of Advanced courses

4.2 The Master of Business Law courses\* are listed as follows:

### Foundation courses:

LAW 7092 Contractual Relations .....	4
LAW 7093 Negligence and Intentional Wrongs.....	4
LAW 7094 Principles of Australian Law .....	4

### Advanced courses

LAW 7009 Mining and Energy Law.....	3
LAW 7024 Comparative Law (PG).....	6
LAW 7034 Anti-discrimination Law Practices and Theory (PG).....	3
LAW 7038 Law of Debtor & Creditor (PG).....	3
LAW 7040 International Environmental Law (PG)...	3
LAW 7042 Technology, Law and Society (PG).....	3
LAW 7043 Corporate Governance & Securities Regulation: International & Comparative Perspectives (PG).....	3
LAW 7055 Comparative Corporate Rescue Law (PG).....	3
LAW 7056 Competition Law: Comparative Perspectives (PG).....	3
LAW 7057 Corporate Governance (PG).....	3
LAW 7059 European Union Law (PG) .....	3
LAW 7061 Globalisation and the Legal Regulation of Work (PG).....	3
LAW 7062 Selected Issues in Intellectual Property Law (PG).....	3
LAW 7063 Government Business and Regulation (PG).....	3
LAW 7064 Intellectual Property Law (PG).....	3
LAW 7065 International Commercial Arbitration (PG) .....	3
LAW 7066 Private International Law .....	3
LAW 7067 International Criminal Law (PG).....	3
LAW 7068 International Energy Law (PG).....	3
LAW 7070 International Trade Law (PG) .....	3

LAW 7072 The Law of Work in the New Economy (PG) .....	3
LAW 7073 Transnational Crime and Terrorism (PG) .....	3
LAW 7074 Transitional Justice (PG) .....	3
LAW 7076 International Economic Law (PG) .....	3
LAW 7096 Sport Law (PG) .....	3
LAW 7098 Insurance Law (PG) .....	3
LAW 7099 International Export Trade & Transport Law (PG) .....	3
LAW 7121 Corporations in the Global Age .....	3
LAW 7120 Human Rights: Problems & Processes .....	3
LAW 7122 Transnational Business & Human Rights .....	3
LAW 7123 Perspectives on Property & Society .....	3
LAW 7124 Workplace Bargaining .....	3
LAW 7150 European Business Law .....	3
Any other course approved by the Program coordinator.	

*\* Not all courses will be offered in any one calendar year.*

### 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.



# Master of Business Law/Master of Commerce

## Master of Business Law/ Master of Commerce (Accounting)

## Master of Business Law/ Master of Commerce (Applied Finance)

## Master of Business Law/ Master of Commerce (Marketing)

### 1 Duration of program

To qualify for the combined degree, a candidate shall satisfactorily complete a program of study comprising five semesters of full-time study or equivalent part-time. The maximum time permitted for completion of the program is eight years.

### 2 Admission requirements

2.1 An applicant for admission shall have qualified for a Bachelor degree of the University of Adelaide or a Bachelor of another institution accepted by the Faculty for the purpose as equivalent.

2.2 The Faculty may subject to such conditions as it sees fit to impose in each case, accept as a candidate for the degree a person who does not satisfy the requirements of Rule 2.1 above, but who has presented evidence satisfactory to the Faculty of fitness to undertake the work for the degree.

2.3 On satisfying the admission requirements for entry to the Master of Business Law/Master of Commerce, students will enrol in a program of study to allow them to qualify for one of the following degrees:

Master of Business Law/Master of Commerce  
Master of Business Law/Master of Commerce (Accounting)

Master of Business Law/Master of Commerce (Applied Finance)

Master of Business Law/Master of Commerce (Marketing)

### 2.4 Status, exemption and credit transfer

2.4.1 The Faculty may grant exemptions towards the program up to a total value of 12 units where in the opinion of the Executive Dean of the Professions, the candidate has already presented a course or courses for another award that contain(s) substantially the same material. All exemptions must be replaced by courses selected from the same discipline area. For the purposes of fulfilling the requirements of Accounting, Applied Finance or Marketing, a minimum of 15 units of

new courses from the relevant discipline must be selected that have not been presented towards another degree.

2.4.2 No candidate shall be granted status for courses with a total value of more than 18 units on account of courses presented for any other award except with permission of the Executive Dean of the Professions.

2.4.3 A candidate, who fails a course and wishes to repeat that course shall, unless partially exempted by the Executive Dean of the Professions, again complete the required work in the course to the satisfaction of the teaching staff concerned.

### 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the combined degree: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

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.

For the purposes of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

3.3 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially therefrom by the Executive Dean of the Professions, again complete the required work in the course to the satisfaction of the teaching staff concerned.

3.4 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

### 4 Qualifications requirements

4.1 A candidate shall satisfactorily complete courses to the value of 60 units, as follows:

#### 4.1.1 Foundation courses

24 units of foundation courses:

ACCTING 7024 Accounting Essentials for Decision Making (M).....	3
<i>or</i>	
ACCTING 7019 Accounting Concepts and Methods (M).....	3
ECON 7200 Economic Principles (M).....	3
LAW 7092 Contractual Relations .....	4
LAW 7093 Negligence and Intentional Wrongs....	4
LAW 7094 Principles of Australian Law .....	4
<i>and</i> (compulsory for Marketing)	
MARKETNG 7005 Marketing Principles (M).....	3
<i>or</i>	
COMMERCE 7005 Principles of Finance .....	3

#### 4.1.2 Business Law courses

18 units of Business Law courses selected from:

LAW 7009 Mining and Energy Law.....	3
LAW 7024 Comparative Law (PG).....	6
LAW 7034 Anti-discrimination Law Practices and Theory (PG).....	3
LAW 7038 Law of Debtor & Creditor (PG).....	3
LAW 7040 International Environmental Law (PG)...	3
LAW 7042 Technology, Law and Society (PG) .....	3
LAW 7043 Corporate Governance & Securities Regulation: International & Comparative Perspectives (PG).....	3
LAW 7055 Comparative Corporate Rescue Law (PG).....	3
LAW 7056 Competition Law: Comparative Perspectives (PG).....	3
LAW 7057 Corporate Governance (PG).....	3
LAW 7059 European Union Law (PG) .....	3
LAW 7061 Globalisation and the Legal Regulation of Work (PG).....	3
LAW 7062 Selected Issues in Intellectual Property Law (PG).....	3
LAW 7063 Government Business and Regulation (PG).....	3
LAW 7064 Intellectual Property Law (PG).....	3
LAW 7065 International Commercial Arbitration (PG) .....	3
LAW 7066 Private International Law .....	3
LAW 7067 International Criminal Law (PG).....	3
LAW 7068 International Energy Law (PG).....	3
LAW 7070 International Trade Law (PG) .....	3
LAW 7072 The Law of Work in the New Economy (PG).....	3
LAW 7073 Transnational Crime and Terrorism (PG).....	3
LAW 7074 Transitional Justice (PG).....	3

LAW 7076 International Economic Law (PG).....	3
LAW 7096 Sport Law (PG).....	3
LAW 7098 Insurance Law (PG).....	3
LAW 7099 International Export Trade & Transport Law (PG) .....	3
LAW 7121 Corporations in the Global Age .....	3
LAW 7120 Human Rights: Problems & Processes.....	3
LAW 7122 Transnational Business & Human Rights .....	3
LAW 7123 Perspectives on Property & Society ....	3
LAW 7124 Workplace Bargaining.....	3
LAW 7150 European Business Law .....	3
Any other course approved by the Executive Dean of the Professions or nominee.	

*\* Not all courses will be offered in any one calendar year.*

#### 4.1.3 Commerce courses

18 units of Commerce courses of which at least 12 units must be selected from one discipline:

##### Accounting

ACCTING 7009 Auditing and Assurance Services (M)* .....	3
ACCTING 7014 Management Accounting (M)*# .....	3
ACCTING 7015 Advanced Financial Reporting (M).....	3
ACCTING 7018 Public Sector and Not-For-Profit Accountability (M).....	3
ACCTING 7020 Intermediate Financial Reporting (M)*# .....	3
ACCTING 7023 Advanced Financial Accounting (M)*# .....	3
COMMERCE 7021 Commercial Law and Information Systems (M)*# .....	3
COMMERCE 7036 Knowledge Management and Measurement (M).....	3
COMMLAW 7011 Corporate Law (M)*# .....	3
COMMLAW 7013 Income Taxation (M)* .....	3
COMMLAW 7016 Business Taxation and GST (M).....	3
CORPFIN 7017 Financial Statement Analysis (M) .....	3

*\* All 7 courses are required for eligibility to the CA program.*

*# All 5 courses are required for eligibility to the CPA program.*

##### Applied Finance

CORPFIN 7017 Financial Statement Analysis (M) .....	3
CORPFIN 7019 Portfolio Theory and Management (M).....	3
CORPFIN 7020 Options, Futures and Risk Management (M).....	3
CORPFIN 7021 Corporate Investment and Strategy (M).....	3

CORPFIN 7022 Corporate Finance Theory (M) .....	3
ECON 7114 Money, Banking and Financial Markets IIID .....	3
CORPFIN 7039 Equity Valuation and Analysis (M) .....	3
CORPFIN 7040 Fixed Income Securities (M) .....	3
CORPFIN 7042 Treasury and Financial Risk Management (M) .....	3
CORPFIN 7044 Financial Planning (M) .....	3
ECON 7044 International Finance IIID .....	3

### Marketing

MARKETNG 7023 Consumer Behaviour (M) .....	3
MARKETNG 7024 International Marketing (M) .....	3
MARKETNG 7025 Marketing Communications (M) .....	3
MARKETNG 7026 Marketing Research and Planning (M) .....	3
MARKETNG 7027 Brand Management (M) .....	3
MARKETNG 7028 E-Marketing (M) .....	3
MARKETNG 7029 International Market Entry Strategies (M) .....	3
MARKETNG 7030 Marketing Ethics (M) .....	3
MARKETNG 7031 Relationship Marketing (M) .....	3
MARKETNG 7032 Strategic Marketing (M) .....	3
MARKETNG 7033 New Product Development & Innovation .....	3

### Electives

BUSINESS 7000 Social Challenges to Global Business .....	3
ECOMMRCE 7004 Internet Commerce (M) .....	3

#### 4.1.3.1 Master of Business Law/Master of Commerce (Accounting)

18 units of Accounting courses selected from 4.1.3 or such courses as approved by the Executive Dean of the Professions or nominee.

*\*\* Students undertaking Income Taxation (M) and Corporate Law (M) may present these courses in lieu of Corporate Law and Revenue Law from the Business Law courses in 4.1.2.*

#### 4.1.3.2 Master of Business Law/Master of Commerce (Applied Finance)

18 units of Applied Finance courses selected from 4.1.3 or such courses as approved by the Executive Dean of the Professions or nominee, including:

CORPFIN 7019 Portfolio Theory and Management (M) .....	3
CORPFIN 7020 Options, Futures and Risk Management (M) .....	3
CORPFIN 7039 Equity Valuation and Analysis (M) .....	3
CORPFIN 7040 Fixed Income Securities (M) .....	3

#### 4.1.3.3 Master of Business Law/Master of Commerce (Marketing)

18 units of Marketing courses selected from 4.1.3 or such courses as approved by the Executive Dean of the Professions or nominee, including:

MARKETNG 7023 Consumer Behaviour (M) .....	3
MARKETNG 7025 Marketing Communications (M) .....	3
MARKETNG 7024 International Marketing (M) .....	3
MARKETNG 7026 Marketing Research and Planning (M) .....	3
MARKETNG 7030 Marketing Ethics (M) .....	3
MARKETNG 7032 Strategic Marketing (M) .....	3

Strategic Marketing (M)\* is a capstone course for the Marketing pathway, and as such must be taken in the final semester of study.

### 4.2 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.

## 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.



# Master of Comparative Law (Adelaide/Mannheim)

## 1 Duration of program

To qualify for the degree, a candidate shall satisfactorily complete a program of study comprising fifteen months of full-time study or equivalent part-time. The maximum time permitted for completion of the program is five years.

## 2 Admission

- 2.1 An applicant for admission to the academic program for the degree of Master of Comparative Law (Adelaide/ Mannheim) shall:
- a have qualified for an Honours Degree of Bachelor of Laws *or*
  - b have qualified for a degree of Bachelor of Laws which the Faculty judges to have been attained at above-average standard *or*
  - c have qualified for a degree of Bachelor of Laws, and have substantial professional experience or other relevant qualifications.
- 2.2 The Faculty may in appropriate cases accept a candidate for the degree of Master of Comparative Law who does not otherwise qualify under the above categories but has given evidence satisfactory to the Faculty of capacity to undertake work for the degree.

## 2.3 Status, exemption and credit transfer

- 2.3.1 The Faculty may grant credit towards the program as follows:
- a up to a maximum of 9 units completed towards a comparable Master of Comparative Law degree accepted by the Faculty for the purpose as equivalent *or*
  - b up to a maximum of 6 units completed towards a comparable degree of the University of Adelaide or the University of Mannheim
- 2.3.2 No candidate will be permitted to count towards the degree 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 a degree.
- 2.4 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 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 Assessment and examinations

- 3.1 There will be four classifications of pass in any course of the Master of Comparative Law (Adelaide/Mannheim) as follows: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.
- 3.2 The Faculty will appoint an examiner in respect of the dissertation submitted to the Faculty.
- 3.3 The examiners shall report to the Faculty and may recommend:
- a that a dissertation is satisfactory *or*
  - b that a dissertation be returned to the candidate for revision and resubmission *or*
  - c that a dissertation is not satisfactory.
- 3.4 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially by the Faculty, again complete the required work in the course to the satisfaction of the relevant teaching staff.
- 3.5 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.
- 3.6 If in the opinion of the Faculty a candidate for the degree is not making satisfactory progress, the Faculty may terminate the candidature and the candidate shall cease to be enrolled for the degree

## 4 Qualification requirements

- 4.1 To qualify for the Master of Comparative Law, a candidate shall satisfactorily complete courses to the value of 30 units as follows:
- a LAW 7024 Comparative Law (Adelaide) ..... 6
  - b 3 units from one of the designated disciplinary streams of elective courses from Adelaide in 4.1.3 below ..... 3
  - c 3 units from any of the elective courses from Adelaide in 4.1.4 below ..... 3
  - d 20 European Credit Transfer System points (20 ECTS = 12 units) comprised as follows:
    - i Comparative Law (Mannheim) ..... 4
    - ii 12 ECTS comprised of at least 2 courses from one of the designated disciplinary streams of courses from Mannheim at 4.1.1 below ..... 12
    - iii 4 ECTS from any of the elective courses from Mannheim at 4.1.2 below ..... 4
  - e Thesis at 4.2 below (units) ..... 6

#### 4.1.1 Mannheim Courses

From Disciplinary Streams	ECTS
<b>International Law</b>	
Human Rights – Problems and Process.....	4
Selected Problems of Public International Law in Comparative Perspective.....	4
The Law of International Organisations in Comparative Perspective.....	4
<b>Human Rights and Humanitarian Law</b>	
International Criminal Law.....	4
International Law Seminar.....	8
<b>European Law</b>	
Business Law in Comparative Perspective.....	4
European Law – EC Competition Law.....	4
European Law – European Market Freedoms.....	4
European Law – Institutional Aspects.....	4
International Business Transactions	
International Economic Law.....	4
Trade and Commerce Law in Comparative Perspective.....	4
Insurance Law in Comparative Perspective	
Comparative Insurance Contract Law Seminar.....	8
Insurance Supervision in Comparative Perspective.....	4
Private International Law of Insurance.....	4
Any other course approved by the Program Coordinator.	

#### 4.1.2 Mannheim Elective Courses (4 ECTS)

Comparative Administrative Law.....	4
Comparative Constitutional Law.....	4
Comparative Environmental Law.....	4
Distributive Justice.....	4
Intellectual Property Rights.....	4
International Environmental Law.....	4
Introduction to German Civil Law.....	4
Islamic Law.....	4
Legal Methodology.....	4
Private International Law.....	4
Any other course approved by the Program Coordinator.	

#### 4.1.3 Adelaide Courses

From Disciplinary Streams	
<b>International Law and European Law</b>	
LAW 7040 International Environmental Law (PG)...	3
LAW 7059 European Union Law (PG).....	3
LAW 7061 Globalisation and the Legal Regulation of Work (PG).....	3
LAW 7068 International Energy Law (PG).....	3

LAW 7073 Transnational Crime and Terrorism (PG).....	3
<b>Human Rights and Humanitarian Law</b>	
LAW 7034 Anti-discrimination Law Practice and Theory (PG).....	3
LAW 7061 Globalisation and the Legal Regulation of Work (PG).....	3
LAW 7067 International Criminal Law (PG).....	3
LAW 7073 Transnational Crime and Terrorism (PG).....	3
LAW 7122 Transnational Business & Human Rights.....	3
<b>International Business Transactions and Insurance Law in Comparative Perspective</b>	
LAW 7038 Law of Debtor & Creditor (PG).....	3
LAW 7043 Corporate Governance & Securities Regulation: International & Comparative Perspectives (PG).....	3
LAW 7055 Comparative Corporate Rescue Law (PG).....	3
LAW 7056 Competition Law: Comparative Perspectives (PG).....	3
LAW 7057 Corporate Governance (PG).....	3
LAW 7061 Globalisation and the Legal Regulation of Work (PG).....	3
LAW 7062 Selected Issues in Intellectual Property Law (PG).....	3
LAW 7065 International Commercial Arbitration (PG).....	3
LAW 7066 Private International Law (PG).....	3
LAW 7068 International Energy Law (PG).....	3
LAW 7070 International Trade Law (PG).....	3
LAW 7076 International Economic Law (PG).....	3
LAW 7098 Insurance Law (PG).....	3
LAW 7099 International Export Trade & Transport Law (PG).....	3
LAW 7120 Human Rights: Problems & Processes.....	3
LAW 7121 Corporations in the Global Age.....	3
LAW 7123 Perspectives on Property & Society.....	3
LAW 7150 European Business Law.....	3
Any other course approved by the Program Coordinator.	

#### 4.1.4 Adelaide elective courses

Any course from 4.1.3 above and in addition:	
LAW 7009 Mining and Energy Law (PG).....	3
LAW 7042 Technology, Law and Society (PG).....	3
LAW 7063 Government, Business and Regulation (PG).....	3
LAW 7064 Intellectual Property Law (PG).....	3
LAW 7072 Law of Work in the New Economy (PG).....	3



LAW 7078 Taxation Law	
- Global Perspectives (PG) .....	3
LAW 7085 Contractual Relations (MCL).....	3
LAW 7087 Negligence and Intentional	
Wrongs (MCL).....	3
LAW 7096 Sport Law (PG).....	3
LAW 7111 Principles of Australian Law (MCL) .....	3
LAW 7124 Workplace Bargaining.....	3
Any other course approved by the Program	
Coordinator.	

## 4.2 Thesis

- 4.2.1 In addition to the above courses a candidate shall write a thesis of between 12,000 and 15,000 words to the value of 6 units.
- 4.2.2 The subject of the dissertation shall be approved and a supervisor appointed by the Faculty at which the student is enrolled. A candidate shall lodge with the Faculty three copies of a dissertation prepared in accordance with directions given to candidates from time to time.

## 4.3 Graduation

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

## 5 Special circumstances

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

## **Graduate Attributes**

### Master of Comparative Law

#### **Knowledge**

- An understanding of the methods of comparative analysis of the law
- An appreciation of the advantages and limitations of a comparative law perspective in understanding the factors responsible for the development of legal principles and systems
- An understanding of basic legal principles underlying different law systems, in particular, in common law and civil law systems
- An understanding of the systemic features of justice delivery in common law and civil law countries
- An understanding of the trends toward convergence and divergence between different law systems
- A specific understanding of selected areas of law applicable in different law systems
- An understanding about the interplay between national and international law regarding setting, monitoring and implementation of universal law standards
- An understanding of the political, economic, social and cultural background determining different law systems
- An understanding of diverse categories of norms and standards in national and international law systems and their means of implementation.
- A basic awareness of the economic impact of law and an understanding of the concept of 'law and economics'.

#### **Skills**

- High level critical thinking and problem solving skills
- Ability to evaluate and synthesise information and existing knowledge from a number of sources and experiences
- Ability to appreciate the changing knowledge base of the law and to respond to the demand for change
- Capacity to engage with current issues of significance in society
- Ability to apply comparative legal skills so as to find progressive solutions for challenges of today's societies
- Capacity to adjust legal theory to demands of legal practice
- Ability to recognise the limits of law and capacity to identify, develop and apply alternative methods to coincide diverging interests
- Capacity to design and construct a logically compelling legal thesis
- High level legal research skills, including familiarity with and proficiency in modern legal research technologies
- Capacity to participate in teamwork
- High level oral communication skills
- High level written communication skills
- The capacity to engage in life-long learning.

#### **Attitudes and Values**

- A commitment to high levels of academic scholarship
- A commitment to the rule of law, human rights and an appreciation of social justice through the operation of law
- An appreciation of cultural diversity and sensitivity to the operation of law in this context.



## 1 General

- 1.1 This document must be read in conjunction with:
- a the General Academic Program Rules for Master by Research Programs (see under Adelaide Graduate Centre, p.18) *and*
  - b the Research Student Handbook, published by the Adelaide Graduate Centre.

These documents explain procedures to be followed and contain guidelines on supervision and research for the degree of Doctor of Philosophy and the various Masters Degrees by Research, offered by the University.

All students must comply with both the General Academic Rules and the rules following below, and procedures outlined in the Research Student Handbook.

In addition to the General Academic Program Rules for Masters by Research degrees, in this publication, the following discipline specific rules apply.

## 2 Admission

- 2.1 Further to Rule 4.1 of the General Academic Program Rules, the Research Education and Development Committee may accept as a candidate for the degree of Master of Laws any person who has qualified for:
- i an Honours Degree of Bachelor of Laws; or
  - ii a degree of Bachelor of Laws with Honours at the University of Adelaide.

The degree presented as qualification for admission must contain a research component deemed appropriate by the Research Education and Development Committee. An Honours degree that contains only coursework will not be accepted for this purpose.

## 3 Submission of thesis

In satisfying rule Rule 19.1 of the General Academic Program Rules, the candidate shall submit a thesis of not more than 70,000 words.



# Master of Laws (by Coursework)

## 1 Duration of program

To qualify for the degree, a candidate shall satisfactorily complete a program of study comprising two semesters of full-time study or equivalent. The maximum time permitted for completion of the program is six years.

## 2 Admission

- 2.1 An applicant for admission to the academic program for the degree of Master of Laws shall:
- have qualified for a Bachelor degree of Laws of the University of Adelaide or a Bachelor degree of Laws of another institution accepted by the Faculty for the purpose as equivalent *or*
  - have qualified for the Graduate Diploma of Law of the University of Adelaide or a Graduate Diploma of Law of another institution accepted by the Faculty for the purposes as equivalent.
- 2.2 The Faculty may, subject to such conditions as it sees fit to impose in each case, accept as a candidate for the degree a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake the work for the degree.
- ### 2.3 Status, exemption and credit transfer
- 2.3.1 The Faculty may grant credit towards the program as follows:
- up to a maximum of 12 units completed towards a comparable Master of Laws degree of another tertiary institution accepted by the Faculty for the purpose as equivalent *or*
  - up to a maximum of 6 units completed towards a comparable degree of the University of Adelaide.
- 2.3.2 A candidate, who fails a course and wishes to repeat that course shall, unless partially exempted by the Dean of the Law School or nominee, again complete the required work in the course to the satisfaction of the teaching staff concerned.
- 2.4 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 Assessment and examinations

- 3.1 There shall be four classifications of pass in any course for the Masters degree: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.
- 3.2 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

- 4.1 A candidate who has been admitted with a Bachelor of Laws or a Graduate Diploma of Laws degree, shall satisfactorily complete courses from the Master of Laws to the value of 24 units;
- The Master of Laws courses\* are listed as follows:
- |   |   |
|---|---|
| LAW 7009 Mining and Energy Law.....   | 3 |
| LAW 7024 Comparative Law (PG).....  | 6 |
| LAW 7034 Anti-discrimination Law Practices and Theory (PG).....   | 3 |
| LAW 7038 Law of Debtor & Creditor (PG).....   | 3 |
| LAW 7040 International Environmental Law (PG)...  | 3 |
| LAW 7042 Technology, Law and Society (PG).....  | 3 |
| LAW 7043 Corporate Governance & Securities Regulation: International & Comparative Perspectives (PG)..... | 3 |
| LAW 7055 Comparative Corporate Rescue Law (PG).....   | 3 |
| LAW 7056 Competition Law: Comparative Perspectives (PG).....  | 3 |
| LAW 7057 Corporate Governance (PG).....   | 3 |
| LAW 7059 European Union Law (PG).....   | 3 |
| LAW 7061 Globalisation and the Legal Regulation of Work (PG).....   | 3 |
| LAW 7062 Selected Issues in Intellectual Property Law (PG).....   | 3 |
| LAW 7063 Government Business and Regulation (PG).....   | 3 |
| LAW 7064 Intellectual Property Law (PG).....  | 3 |
| LAW 7065 International Commercial Arbitration (PG).....   | 3 |
| LAW 7066 Private International Law.....   | 3 |
| LAW 7067 International Criminal Law (PG).....   | 3 |
| LAW 7068 International Energy Law (PG).....   | 3 |
| LAW 7070 International Trade Law (PG).....  | 3 |
| LAW 7072 The Law of Work in the New Economy PG).....  | 3 |
| LAW 7073 Transnational Crime and Terrorism (PG).....  | 3 |

LAW 7074 Transitional Justice (PG) .....	3
LAW 7076 International Economic Law (PG) .....	3
LAW 7096 Sport Law (PG).....	3
LAW 7098 Insurance Law (PG).....	3
LAW 7099 International Export Trade & Transport Law (PG).....	3
LAW 7121 Corporations in the Global Age .....	3
LAW 7120 Human Rights: Problems & Processes .....	3
LAW 7122 Transnational Business & Human Rights .....	3
LAW 7123 Perspectives on Property & Society .....	3
LAW 7124 Workplace Bargaining.....	3
LAW 7150 European Business Law .....	3
Any other course approved by the Program coordinator.	

*\* Not all courses will be offered in any one calendar year.*

## 4.2 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.

## 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**

Master of Business Law

Master of Laws

### **Knowledge**

- Advanced understanding of the law in the commercial, international and comparative contexts..

### **Skills**

- High level critical thinking and problem solving skills
- Ability to evaluate and synthesise information and existing knowledge from a number of sources and experiences
- Ability to appreciate the changing knowledge base of the law and to respond to the demand for change
- Capacity to engage with current issues of significance in society
- Capacity to design and construct a logically compelling legal thesis
- High level legal research skills, including familiarity with and proficiency in modern legal research technologies
- Capacity to participate in teamwork
- High level oral communication skills
- High level written communication skills
- The capacity to engage in life-long learning.

### **Attitudes and Values**

- A commitment to high levels of academic scholarship
- A commitment to the rule of law and an appreciation of social justice through the operation of law
- An appreciation of cultural diversity and sensitivity to the operation of law in this context.



# Master of Laws/Master of Commerce

## Master of Laws/Master of Commerce (Accounting)

## Master of Laws/ Master of Commerce (Applied Finance)

## Master of Laws/Master of Commerce (Marketing)

### 1 Duration of Program

To qualify for the combined degree, a candidate shall satisfactorily complete a program of study comprising four semesters of full-time study. The maximum time permitted for completion of the program is eight years.

### 2 Admission

2.1 An applicant for admission to the academic program for the degree of Master of Laws/Master of Commerce shall:

- a have qualified for a Bachelor degree of Laws of the University of Adelaide or a Bachelor degree of Laws of another institution accepted by the Faculty for the purpose as equivalent *or*
- b have qualified for the Graduate Diploma of Law of the University of Adelaide or a Graduate Diploma of Law of another institution accepted by the Faculty for the purposes as equivalent.

2.2 The Faculty may subject to such conditions as it sees fit to impose in each case, accept as a candidate for the degree a person who does not satisfy the requirements of Rule 2.1 above, but who has presented evidence satisfactory to the Faculty of fitness to undertake the work for the degree.

2.3 On satisfying the admission requirements for entry to the Master of Commerce/ Master of Laws, students will enrol in a program of study to allow them to qualify for one of the following combined degrees:

Master of Laws/Master of Commerce  
Master of Laws/Master of Commerce (Accounting)

Master of Laws/Master of Commerce (Applied Finance)

Master of Laws/Master of Commerce (Marketing)

### 2.4 Status, exemption and credit transfer

2.4.1 The Faculty may grant exemptions towards the program up to a total value of 12 units where in the opinion of the Executive Dean of the Professions, the candidate has already presented a course or courses for another award that contain/s substantially the same material. All exemptions

must be replaced by courses selected from the same discipline area. For the purposes of fulfilling the requirements of Accounting, Applied Finance or Marketing a minimum of 18 units of new courses from the relevant discipline must be selected that have not been presented towards another degree.

2.4.2 No candidate shall be granted status for courses with a total value of more than 12 units on account of courses presented for any other award except with permission of the Executive Dean of the Professions.

2.4.3 A candidate, who fails a course and wishes to repeat that course shall, unless partially exempted by the Executive Dean of the Professions, again complete the required work in the course to the satisfaction of the teaching staff concerned.

### 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Masters degree: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

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.

For the purposes of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

3.3 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially therefrom the Executive Dean of the Professions, again complete the required work in the course to the satisfaction of the teaching staff concerned.

3.4 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

### 4 Qualification Requirements

4.1 A candidate shall satisfactorily complete courses to the value of 48 units, as follows:

#### 4.1.1 Foundation courses

12 units of foundation courses:

ACCTING 7019 Accounting Concepts and Methods (M).....	3
<i>or</i>	
ACCTING 7024 Accounting Essentials for Decision Making (M).....	3
COMMERCE 7033 Quantitative Methods (M).....	3
ECON 7200 Economic Principles (M).....	3
<i>and</i> (compulsory for Marketing)	
MARKETNG 7005 Marketing Principles (M).....	3
<i>or</i> (compulsory for Accounting or Finance)	
COMMERCE 7005 Principles of Finance .....	3

#### 4.1.2 Laws courses

18 units of Law courses selected from:

LAW 7009 Mining and Energy Law.....	3
LAW 7024 Comparative Law (PG).....	6
LAW 7034 Anti-discrimination Law Practices and Theory (PG).....	3
LAW 7038 Law of Debtor & Creditor (PG).....	3
LAW 7040 International Environmental Law (PG)....	3
LAW 7042 Technology, Law and Society (PG).....	3
LAW 7043 Corporate Governance & Securities Regulation: International & Comparative Perspectives (PG).....	3
LAW 7055 Comparative Corporate Rescue Law (PG).....	3
LAW 7056 Competition Law: Comparative Perspectives (PG).....	3
LAW 7057 Corporate Governance (PG).....	3
LAW 7059 European Union Law (PG).....	3
LAW 7061 Globalisation and the Legal Regulation of Work (PG).....	3
LAW 7062 Selected Issues in Intellectual Property Law (PG).....	3
LAW 7063 Government Business and Regulation (PG).....	3
LAW 7064 Intellectual Property Law (PG).....	3
LAW 7065 International Commercial Arbitration (PG).....	3
LAW 7066 Private International Law .....	3
LAW 7067 International Criminal Law (PG).....	3
LAW 7068 International Energy Law (PG).....	3
LAW 7070 International Trade Law (PG).....	3
LAW 7072 The Law of Work in the New Economy (PG).....	3
LAW 7073 Transnational Crime and Terrorism (PG).....	3
LAW 7074 Transitional Justice (PG).....	3
LAW 7076 International Economic Law (PG).....	3

LAW 7096 Sport Law (PG).....	3
LAW 7098 Insurance Law (PG).....	3
LAW 7099 International Export Trade & Transport Law (PG).....	3
LAW 7121 Corporations in the Global Age.....	3
LAW 7120 Human Rights: Problems & Processes.....	3
LAW 7122 Transnational Business & Human Rights.....	3
LAW 7123 Perspectives on Property & Society ....	3
LAW 7124 Workplace Bargaining.....	3
LAW 7150 European Business Law.....	3
Any other course approved by the Executive Dean of the Professions or nominee.	

Note: Not all courses will be offered in any one calendar year.

#### 4.1.3 Commerce courses

18 units of Commerce courses of which at least 12 units must be selected from one discipline:

##### Accounting

ACCTING 7009 Auditing and Assurance Services (M)* .....	3
ACCTING 7014 Management Accounting (M)*# .....	3
ACCTING 7015 Advanced Financial Reporting (M)3	
ACCTING 7018 Public Sector and Not-For-Profit Accountability (M).....	3
ACCTING 7020 Intermediate Financial Reporting (M)*# .....	3
ACCTING 7023 Advanced Financial Accounting (M)*# .....	3
COMMERCE 7021 Commercial Law and Information Systems (M)*# .....	3
COMMERCE 7036 Knowledge Management and Measurement (M).....	3
COMMLAW 7011 Corporate Law (M)*# .....	3
COMMLAW 7013 Income Taxation (M)* .....	3
COMMLAW 7016 Business Taxation and GST (M).....	3
CORPFIN 7017 Financial Statement Analysis (M)..	3

\* All 7 courses are required for eligibility to the CA program.

# All 5 courses are required for eligibility to the CPA program.

##### Applied Finance

CORPFIN 7017 Financial Statement Analysis (M)..	3
CORPFIN 7019 Portfolio Theory and Management (M).....	3
CORPFIN 7020 Options, Futures and Risk Management (M) .....	3
CORPFIN 7021 Corporate Investment and Strategy (M).....	3
CORPFIN 7022 Corporate Finance Theory (M).....	3
CORPFIN 7039 Equity Valuation and Analysis (M).....	3



CORPFIN 7040 Fixed Income Securities (M) .....	3
CORPFIN 7042 Treasury and Financial Risk Management (M) .....	3
ECON 7044 International Finance IIID .....	3
ECON 7114 Money, Banking and Financial Markets IIID .....	3

### Marketing

MARKETNG 7023 Consumer Behaviour (M).....	3
MARKETNG 7024 International Marketing (M).....	3
MARKETNG 7025 Marketing Communications (M) .....	3
MARKETNG 7026 Market Research & Planning .....	3
MARKETNG 7027 Brand Management (M) .....	3
MARKETNG 7028 E-Marketing (M) .....	3
MARKETNG 7029 International Market Entry Strategies (M) .....	3
MARKETNG 7030 Marketing Ethics (M) .....	3
MARKETNG 7031 Relationship Marketing (M) .....	3
MARKETNG 7032 Strategic Marketing (M).....	3
MARKETNG 7033 New Product Development & Innovation .....	3

### Electives

BUSINESS 7000 Social Challenges to Global Business.....	3
ECOMMRCE 7004 Internet Commerce (M).....	3

#### 4.1.3.1 Master of Laws/

##### Master of Commerce (Accounting)

18 units of Accounting courses selected from 4.1.3 or such courses as approved by the Executive Dean of the Professions or nominee.

#### 4.1.3.2 Master of Laws/

##### Master of Commerce (Applied Finance)

18 units of Applied Finance courses selected from 4.1.3 or such courses as approved by the Executive Dean of the Professions or nominee, including:

CORPFIN 7019 Portfolio Theory and Management (M) .....	3
CORPFIN 7020 Options, Futures and Risk Management (M) .....	3
CORPFIN 7039 Equity Valuation and Analysis (M).....	3
CORPFIN 7040 Fixed Income Securities (M) .....	3

#### 4.1.3.3 Master of Laws/

##### Master of Commerce (Marketing)

18 units of Marketing courses selected from 4.1.3 or such courses as approved by the Executive Dean of the Professions or nominee, including:

MARKETNG 7023 Consumer Behaviour (M).....	3
MARKETNG 7025 Marketing Communications (M) .....	3

MARKETNG 7024 International Marketing (M) .....	3
MARKETNG 7026 Marketing Research and Planning (M).....	3
MARKETNG 7030 Marketing Ethics (M) .....	3
MARKETNG 7032 Strategic Marketing (M) * .....	3

\* *Strategic Marketing (M) is a capstone course for the Marketing pathway, and as such must be taken in the final semester of study.*

## 4.2 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.

## 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

Master of Business Law/Master of Commerce (Accounting)

Master of Laws/Master of Commerce (Accounting)

- The ability to identify and analyse contemporary thinking and developments within the fields of accounting, auditing, business law and business systems, which are set in the context of the management and governance of organisations that interface with securities markets, governments and societies
- An understanding of the application of accounting methods and techniques and their contribution to financial planning, control, performance measurement and decision-making by management and investors
- Advanced understanding of the law in the commercial, international and comparative contexts
- Advanced critical and strategic thinking skills, capabilities and competencies in relation to accounting and business analysis issues and problems
- Ability to apply technical and analytical skills, using relevant decision frameworks and empirical research evidence, to address specific accounting and business law problems
- Capacity to design and construct a logically compelling legal thesis
- The ability to think creatively and generate innovative solutions by developing a capability in the accounting discipline that can record, analyse, report and interpret complex financial and other corporate information
- Skills in identifying and solving accounting and business analysis problems emerging from strategic developments in practice and regulation
- The ability to adopt multiple perspectives in applying planning, control and evaluation techniques to the operational, financial, legal and environmental dimensions of an organization and its sub-units
- Ability to appreciate the changing knowledge base of the law and to respond to the demand for change
- Ability to communicate ideas effectively in both informal group discussions and formal presentations
- Ability to produce both complex research reports intended for review by academics and/or experts, and management reports intended for decision-making by general managers
- Sound written and oral communication skills, particularly in relation to presenting articulate analyses and arguments
- Proficiency the use of electronic databases, web searching, ethnographical investigative methods, and the preparation of multimedia presentations
- High level legal research skills, including familiarity with and proficiency in modern legal research technologies.
- A deep appreciation of continuous change and improvement in organisations and societies
- An understanding of the importance of lifelong learning in fields of accounting, regulatory frameworks, business systems, law and management
- An awareness of their potential responsibilities as practising members of a professional accounting body.
- Ability to take a leadership role in their profession and the wider business community
- A heightened understanding of ethical issues and dilemmas that will be faced as accounting professionals who advise and provide services to clients or managements
- A commitment to the rule of law and an appreciation of social justice through the operation of law
- Sensitivity to cultural and social issues and the operation of law within diverse contexts; particularly concerned with organisations that operate internationally
- The capacity to engage with current issues of significance in society.

## **Graduate Attributes**

Master of Business Law/Master of Commerce (Applied Finance)

Master of Laws/Master of Commerce (Applied Finance)

### **Knowledge**

- Knowledge and understanding covering the breadth of the discipline of finance, leading to the ability to competently analyse financial instruments and world financial markets at an advanced level that is internationally recognised
- Advanced understanding of the law in the commercial, international and comparative contexts.

Specifically, the program will provide:

- Knowledge and understanding of issues associated with pricing and trading financial instruments in equity, fixed income and derivatives markets
- Ability to formulate and test trading strategies along with an understanding of how to benchmark and manage diversified funds
- Knowledge of the key factors involved in determining investment policy statements suitable for clients with differing investment profiles.

### **Skills**

- High level critical thinking and problem solving skills
- Capacity to design and construct a logically compelling legal thesis
- Ability to evaluate and synthesise information and existing knowledge from a number of sources and experiences
- Ability to appreciate the changing knowledge base of the financial and legal professions, and to respond to the demands for change
- Capacity to engage with current issues of significance in commerce, government and society
- Ability to integrate accounting, finance, marketing and management skills so as to find progressive solutions for challenges of today's businesses and societies
- Capacity to apply finance theory to respond to demands of the respective practice
- High level legal research skills, including familiarity with and proficiency in modern legal research technologies
- Ability to recognise the limits of the professional disciplines and a capacity to identify, develop and apply alternative methods to coincide diverging interests
- Capacity to design and construct a logically compelling management report
- Capacity to participate in teamwork
- High level oral communication skills
- High level written communication skills
- The capacity to engage in life-long learning.

### **Attitudes and Values**

- A commitment to high levels of academic scholarship
- A commitment to business ethics and an appreciation of social justice through organisations that pursue good governance and conform to legal and professional standards and societies norms
- A commitment to the rule of law and an appreciation of social justice through the operation of law
- An appreciation of cultural diversity and sensitivity to the operation of commerce and law in this context.

## **Graduate Attributes**

Master of Business Law/Master of Commerce (Marketing)

Master of Laws/Master of Commerce (Marketing)

### **Knowledge**

- An appreciation of basic principles and tools necessary to pursue further studies in the broad field of commerce
- Advanced understanding of the law in the commercial, international and comparative contexts
- An in-depth understanding of the methods of techniques applied in marketing
- An understanding of the underlying theories and concept that inform alternative perspectives adopted in approaching issues and problems in marketing
- An understanding of the features of professional and regulatory frameworks and institutions relevant to commerce
- An understanding of the trends toward international convergence and divergence between different marketing systems
- An understanding of the political, economic, social and cultural contexts determining different marketing systems
- An understanding of diverse categories of norms and standards in national and international marketing systems and their means of implementation.

### **Skills**

- High level critical thinking and problem solving skills
- Capacity to design and construct a logically compelling legal thesis
- Ability to evaluate and synthesise information and existing knowledge from a number of sources and experiences
- Ability to appreciate the changing knowledge base of the marketing and legal professions, and to respond to the demands for change
- Capacity to engage with current issues of significance in commerce, government and society
- Ability to integrate accounting, finance, marketing and management skills so as to find progressive solutions for challenges of today's businesses and societies
- Capacity to apply marketing theory to respond to demands of the respective practice
- High level legal research skills, including familiarity with and proficiency in modern legal research technologies
- Ability to recognise the limits of the professional disciplines and a capacity to identify, develop and apply alternative methods to coincide diverging interests
- Capacity to design and construct a logically compelling management report
- Capacity to participate in teamwork
- High level oral communication skills
- High level written communication skills
- The capacity to engage in life-long learning.

### **Attitudes and Values**

- A commitment to high levels of academic scholarship
- A commitment to business ethics and an appreciation of social justice through organisations that pursue good governance and conform to legal and professional standards and societies norms
- A commitment to the rule of law and an appreciation of social justice through the operation of law
- An appreciation of cultural diversity and sensitivity to the operation of commerce and the law in this context.

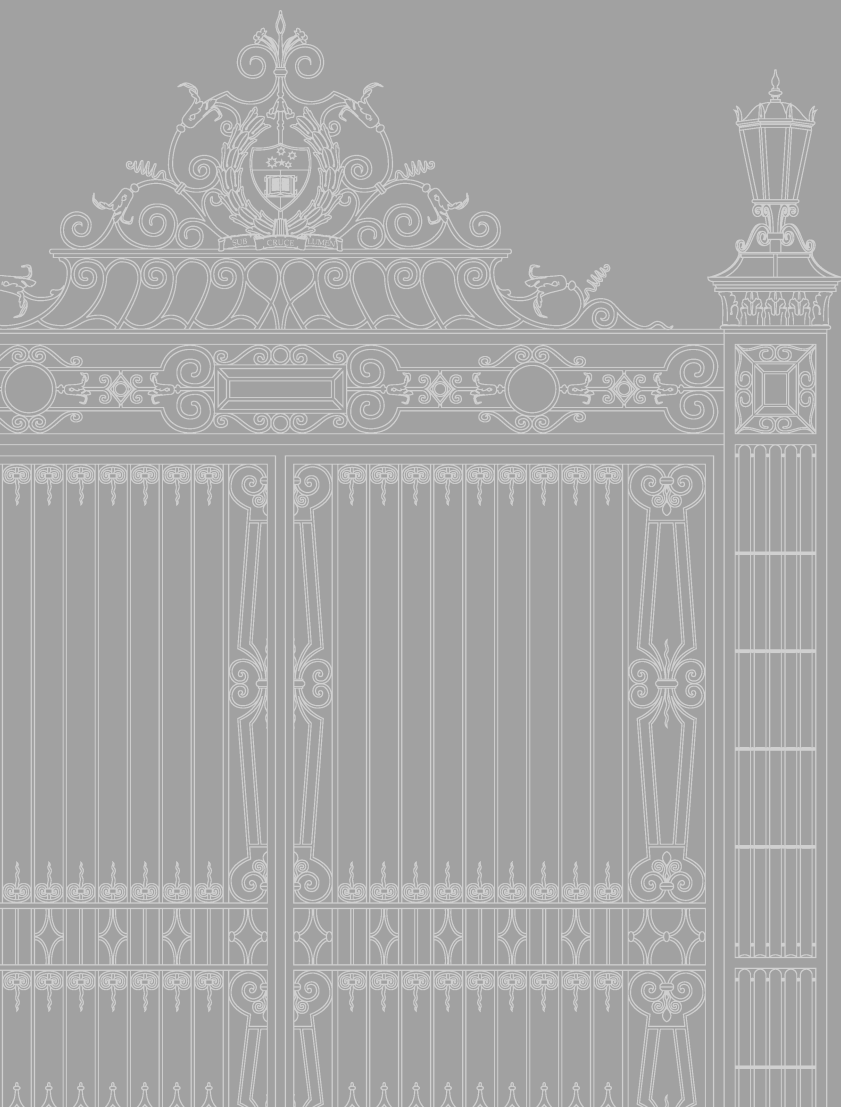
## Graduate Attributes

Master of Business Law/Master of Commerce (Performance Management)

Master of Laws/Master of Commerce (Performance Management)

- Specialist understanding of techniques and concepts associated with 'performance management' which draws from a multidisciplinary base to provide a unique concentration on the management and evaluation of performance at the organizational, sub-unit and individual levels
- An appreciation of the potential contribution to organisational management through engagement with, and integration of, the operational and strategic functions of organisations in their business and societal settings
- Advanced understanding of the law in the commercial, international and comparative contexts
- The skills and discipline to search for, synthesise, organise and present performance information, using a range of methodologies and technologies
- Analytic skills that can argue from both qualitative and quantitative evidence
- Capacity to design and construct a logically compelling legal thesis
- The ability to think creatively and generate innovative solutions by developing a perspective in the management discipline that focuses directly on managing organisational performance in its multiple dimensions and from an interdisciplinary base
- The ability to adopt multiple perspectives in applying planning, control and evaluation techniques to the operational, financial, human, social and environmental dimensions of an organization and its sub-units
- Ability to appreciate the changing knowledge base of the law and to respond to the demand for change
- Capacity to engage with current issues of significance in society
- Ability to communicate ideas effectively in both informal group discussions and formal presentations
- Ability to produce both complex research reports intended for review by academics and/or experts, and management reports intended for decision-making by general managers
- Proficiency the use of electronic databases, web searching, ethnographical investigative methods, and the preparation of multimedia presentations
- High level legal research skills, including familiarity with and proficiency in modern legal research technologies
- A deep appreciation of continuous change and improvement in organisations and societies
- An understanding of the importance of lifelong learning in fields of law, business and management
- An awareness of their potential leadership roles in organisations and the wider community
- A heightened understanding of ethical issues in the managing of organisational performance where trade-offs must be made between multiple stakeholders
- A commitment to the rule of law and an appreciation of social justice through the operation of law
- Sensitivity to cultural and social issues and the operation of law within diverse contexts; particularly concerned with organisations that operate internationally
- The capacity to engage with current issues of significance in society.





# Academic Program Rules

## Elder Conservatorium of Music

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### Postgraduate Awards

- Graduate Diploma in Music (Performance)
- Graduate Diploma in Music (Performance and Pedagogy)
- Master of Music
- Master of Music (Performance and Pedagogy)

#### 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 Diploma in Music (Performance)

## Graduate Diploma in Music (Performance and Pedagogy)

### 1 Duration of program

To qualify for either Graduate Diploma a candidate shall complete a program of study extending over one year as a full-time student, or not less than two years as a part-time student.

### 2 Admission

2.1 The Faculty may accept as a candidate for either Graduate Diploma any person who has qualified for

- a the degree of Bachelor of Music of the University of Adelaide which the Faculty judges to have been attained at above-average standard
- b the degree of the Bachelor of Arts of the University of Adelaide which has within it a major sequence in Music or its equivalent. These courses must have been attained at above-average standard *or*
- c a degree in Music of another institution which is accepted for the purpose by the Faculty.

2.2 Subject to the approval of Council the Faculty may, in special cases and subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for either Graduate Diploma a person who does not qualify for admission to the program under Academic Program Rule 2.1 but has given evidence satisfactory to the Faculty of fitness to undertake work for the Graduate Diploma in Music (Performance) or the Graduate Diploma in Music (Performance and Pedagogy).

### 2.3 Status, exemption and credit transfer

Candidates who have previously satisfactorily completed courses for the Bachelor of Music or Bachelor of Arts or another award which includes substantially the same material as that in the program listed above, shall complete alternative courses in lieu of those already passed to a total value of 12 units.

### 2.4 Articulation with other awards

Candidates who complete the Graduate Diploma in Music (Performance) or the Graduate Diploma in Music (Performance and Pedagogy) are also eligible to apply for entry to the Master of Music (Performance and Pedagogy), and to be granted status for the work they have undertaken in the Graduate Diploma.

### 3 Assessment and examination

3.1 There shall be the four classifications of Pass in courses for the Graduate Diploma: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

No conceded passes may be presented for these awards.

### 3.2 Academic progress

If in the opinion of the Faculty a candidate is not making satisfactory progress the Faculty may, with the consent of the Council, terminate the candidature.

### 4 Qualification requirements

#### 4.1 Graduate Diploma in Music (Performance)

4.1.1 To qualify for the Graduate Diploma in Music Performance, a candidate shall satisfactorily complete the following courses:

PERF 6008 A/B Major Recital IV Part 1 & 2 ..... 12  
PERF 6015 A/B Minor Recital IV Part 1 & 2 ..... 6  
PERF 6016 A/B Negotiated Project IV Part 1 & 2 ... 6

4.1.2 Students of brass instruments or bassoon may give two short (30 minute) recitals in lieu of Major Recital IV.

4.1.3 In special cases the Dean may approve different but equivalent sets of exercises.

#### 4.2 Graduate Diploma in Music (Performance and Pedagogy)

4.2.1 To qualify for the Graduate Diploma in Music Performance and Pedagogy, a candidate shall satisfactorily complete the following courses:

MUSPED 6001 Pedagogy Seminar IV ..... 6  
MUSPED 6002 Pedagogy Practicum IV ..... 6  
PERF 6015 A/B Minor Recital IV Part 1 & 2 ..... 6  
PERF 6016 A/B Negotiated Project IV  
Part 1 & 2 ..... 6

4.2.2 In special cases the Director may approve different but equivalent sets of exercises

#### 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 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 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.

## 1 General

1.1 This document must be read in conjunction with:

- a the General Academic Program Rules for Master by Research Programs (see under Adelaide Graduate Centre, p.18) *and*
- b the Research Student Handbook, published by the Adelaide Graduate Centre.

These documents explain procedures to be followed and contain guidelines on supervision and research for the degree of Doctor of Philosophy and the various Masters Degrees by Research, offered by the University.

All students must comply with both the General Academic Rules and the rules following below, and procedures outlined in the Research Student Handbook.

In addition to the General Academic Program Rules for Masters by Research degrees, in this publication, the following discipline specific rules apply.

candidates enrolled under clause 3.1(c) must present one seminar paper.

- b The advanced work required under clause 3.3(a) must be completed prior to the presentation of the work specified under clause 3.1.
- c The advanced work will not be assessed by an external examiner. Should any of this work be assessed as unsatisfactory then it may be re-presented or re-submitted.

3.4 The folio required under clause 3.1 (a) shall be approximately 55-60 minutes duration in performance. The exegesis will be up to 5000 words.

3.5 The public recitals required under clause 3.1 (c) must be presented at an interval of not more than 3 months, the duration of each to be 60 minutes. The exegesis will be up to 5000 words.

3.6 A candidate completing the requirements of clauses 3.1 and 3.3 (a) shall qualify for the degree.

## 2 Definition

A Masters thesis makes a contribution to existing scholarship through independent research and the critical application of knowledge in its field. It demonstrates a capacity to ask and answer appropriate questions based on a thorough understanding of relevant literature and sources. It is assessed on the quality of its research, its depth of understanding and its literary or musical presentation.

## 3 Studies in music

3.1 Every candidate in Music shall pursue a program of advanced study in Music. This may include the presentation and assessment of one of the following:

- a a folio of compositions which may include a multi-media project, and an exegesis *or*
- b a thesis on a topic in Ethnomusicology, Musicology, Music Education or relevant interdisciplinary study *or*
- c two CDs (presenting recordings of 2 public recitals) and an exegesis.

3.2 The degree shall not be awarded on the basis of a portfolio of publications.

3.3 a In addition, candidates enrolled under clause 3.1 shall also present other advanced projects or seminars. Candidates enrolled under clause 3.1(a) must present one seminar paper or a major analysis; candidates enrolled under clause 3.1(b) must present one seminar paper;



# Master of Music (Performance and Pedagogy)

## 1 Duration of program

To qualify for the degree a candidate shall complete a program of advanced studies in Performance and Pedagogy extending over not less than four semesters of full-time study or no more than eight semesters of part-time study.

## 2 Admission

- 2.1 The Faculty may accept as a candidate for the degree a person who has qualified for:
- the Honours degree of Bachelor of Music (Performance) of the University of Adelaide at First Class or IIA standard *or*
  - the Graduate Diploma in Music (Performance) of the University of Adelaide at a standard comparable to First Class or IIA Honours *or*
  - the Graduate Diploma in Music (Performance and Pedagogy) of the University of Adelaide at a standard comparable to First Class or IIA Honours *or*
  - a degree or diploma in Music of another institution accepted for the purpose by the University.

The Faculty reserves the right to require an acceptable level of performance at audition.

- 2.2 In special cases the Board of Research Education and Development acting with authority wittingly devolved to it by Council on the recommendation of the Faculty and subject to such conditions (if any) as it may impose in each case, may accept as a candidate for the degree an applicant who has given other evidence satisfactory to the Faculty of their fitness to undertake studies for the degree.

### 2.3 Articulation with other awards

- 2.3.1 A candidate for the Master of Music (Performance and Pedagogy) who does not complete the requirements for the Masters but satisfies the requirements for the Graduate Diploma in Music (Performance and Pedagogy) or the Graduate Diploma in Music (Performance), may be admitted to the one or other of those awards as appropriate.
- 2.3.2 A candidate who has been admitted to the Graduate Diploma in Music (Performance and Pedagogy) or the Graduate Diploma in Music (Performance) and who subsequently satisfies the requirements for the Master of Music (Performance and Pedagogy) must surrender the Graduate Diploma before being admitted to the Masters degree.

## 3 Assessment and examination

There shall be four classifications of Pass in courses for the Master of Music: Pass with High Distinction, Pass with Distinction, Pass with Credit, and Pass.

No conceded passes may be presented for this award.

## 4 Qualification requirements

- 4.1 To qualify for the degree a candidate shall:
- undertake an approved program of advanced study in singing or a musical instrument, under the direction of a supervisor or supervisors appointed by the Dean
  - perform at a satisfactory standard at such public recitals as may be prescribed in the Academic Program Rules
  - complete the courses listed under 5.3 below.

### 4.2 Academic program

The availability of all courses is conditional upon the availability of staff and facilities.

### 4.3 Courses of study

- 4.3.1 To qualify for the Master of Music (Performance and Pedagogy), a candidate shall satisfactorily complete the following courses to the value of 48 units:
- |  |    |
|--|----|
| MUSPED 6001 Pedagogy Seminar IV .....                | 6  |
| MUSPED 6002 Pedagogy Practicum IV .....              | 6  |
| MUSPED 7001 Pedagogy Seminar V .....                 | 6  |
| MUSPED 7002 Pedagogy Practicum V .....               | 6  |
| PERF 6008 A/B Major Recital IV Part 1 & 2 .....      | 12 |
| PERF 6015 A/B Minor Recital IV Part 1 & 2 .....      | 6  |
| PERF 6016 A/B Negotiated Project IV Part 1 & 2 ..... | 6  |
- 4.3.2 Students of brass instruments or bassoon may give two short (30 minute) recitals in lieu of Major Recital IV.
- 4.3.3 In special cases the Director may approve different but equivalent sets of exercises.

### 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 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.



# Master of Music (Performance Studies)

## 1 Duration of program

To qualify for the degree a candidate shall complete a program of study extending over not less than four semesters of full-time study, or no more than eight semesters of part-time study.

## 2 Admission

- 2.1 The Faculty may accept as a candidate for the Masters degree any person who has qualified for:
  - a a Bachelor level Music degree of the University of Adelaide attained at a Credit average or higher, or an Honours degree of Bachelor of Music (Performance) of the University of Adelaide at IIA standard or higher or
  - b the Graduate Diploma in Music (Performance) of the University of Adelaide or
  - c a degree in Music from another institution which is accepted for the purpose by the Faculty.
- 2.2 In addition to 2.1 above, the Faculty reserves the right to require an acceptable level of performance at audition.
- 2.3 Subject to the approval of Council the Faculty may, in special cases and subject to such conditions (if any) as it may see fit to impose in each case, may accept as a candidate for the degree a person who does not qualify for admission to the program under Academic Program Rule 2.1 but has given evidence satisfactory to the Faculty of fitness to undertake work for the Masters.

### 2.4 Status, exemption and credit transfer

Candidates who have previously satisfactorily completed courses for another award which includes substantially the same material as that in the program listed above, shall complete alternative courses in lieu of those already passed to a total value of 12 units.

### 2.5 Articulation with other awards

- 2.5.1 A candidate for the Master of Music (Performance Studies) who does not complete the requirements for the Masters but satisfies the requirements of the Graduate Diploma in Music (Performance) may be admitted to that award as appropriate.
- 2.5.2 A candidate who has been admitted to the Graduate Diploma in Music (Performance) and who subsequently satisfies the requirements for the Master of Music (Performance Studies) must surrender the Graduate Diploma before being admitted to the Masters degree.

## 3 Assessment and examination

- 3.1 There shall be the four classifications of Pass in courses for the Masters degree: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.
- 3.2 A candidate shall not be eligible to be assessed, by examination or otherwise, unless the prescribed classes have been regularly attended, and the written practical or other work has been completed to the satisfaction of the teaching staff concerned.
- 3.3 A candidate who fails a course and wishes to repeat that course, shall, unless exempted partially therefrom by the Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.
- 3.4 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.
- 3.5 For the purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

### 3.6 Review of academic progress

If in the opinion of the Faculty a candidate is not making satisfactory progress the Faculty may, with the consent of the Council, terminate the candidature.

## 4 Qualification requirements

### 4.1 Master of Music (Performance Studies)

To qualify for the Master of Music (Performance Studies) a candidate shall satisfactorily complete the following courses, totalling 48 units:

PERF 6008A/B Major Recital IV.....	12
PERF 6015A/B Minor Recital IV.....	6
PERF 6016A/B Negotiated Project IV.....	6
PERF 7024A/B Major Recital V Part 1 & 2.....	12
Music elective courses to the value of 12 units chosen from the following:	
PERF 7021 Professional Project VA.....	6
PERF 7022 Professional Project VB.....	6
PERF 7023A/B Minor Recital V Part 1 & 2.....	6
PERF 7025A/B Ensemble V Part 1 & 2.....	6

- 4.1.1 Students of brass instruments or bassoon may give two short (30 minute) recitals in lieu of Major Recital IVA or IVB.

4.1.2 In special cases the Director may approve different but equivalent sets of exercises.

#### **4.2 Unacceptable combinations of courses**

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

#### **4.3 Graduation**

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

### **5 Special Circumstances**

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

## **Graduate Attributes**

### Master of Music (Performance Studies)

#### **Knowledge , understanding and mastery of performance practice and the principles and processes of teaching and learning related to it**

- 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
- Knowledge of the principles of music learning and teaching.

#### **Knowledge and understanding of the language of music and its role in developing self-awareness**

- The ability to analyse and synthesise complex material
- An imaginative and creative approach to problem solving
- The ability to locate information resources appropriate to independent, life long learning
- Knowledge, understanding and mastery of the conceptual and practical components of music.

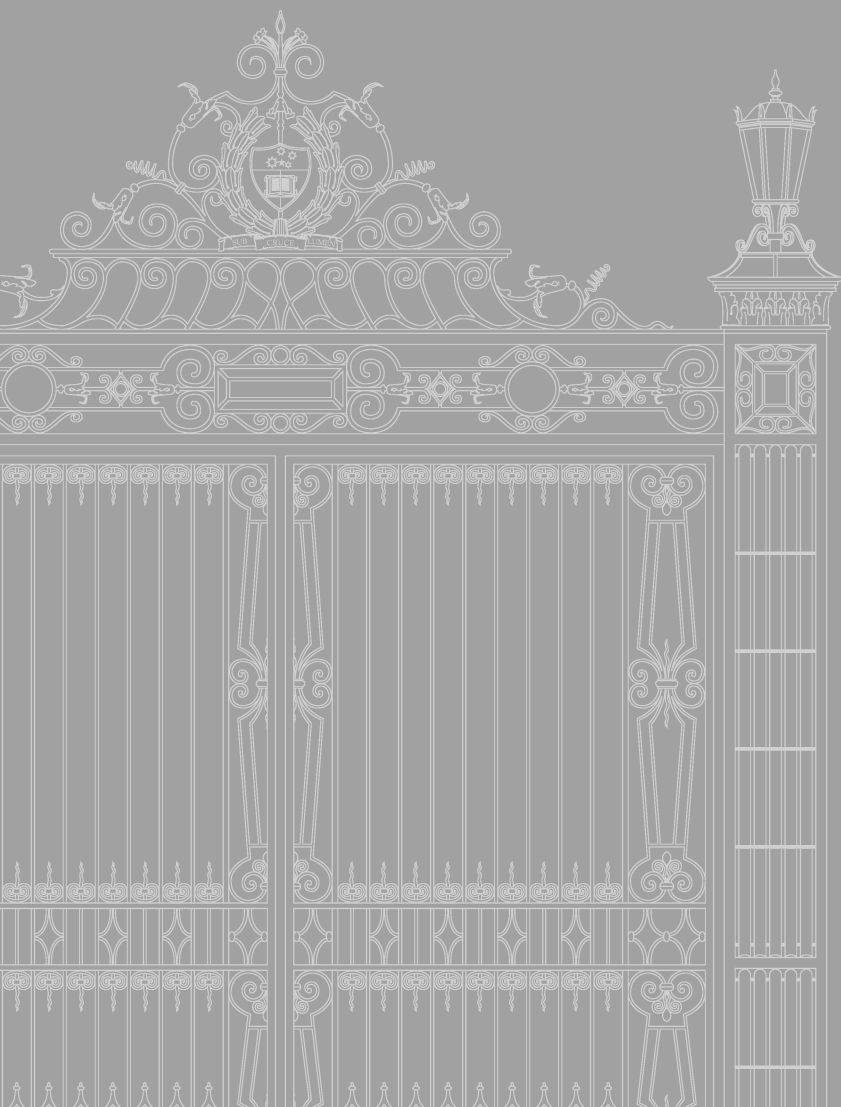
#### **A clear understanding of the professional musical world, the teaching profession and their linkages**

- Confidence in the use of oral and written communication skills
- Flexibility and agility of musical thought and judgement
- A clear understanding of the professional world and the standards required for professional work
- Sensitivity to the contribution of others and the ability to function as part of a team
- A high level of independence and initiative and a desire for continued improvement in all aspects of professional endeavour.

#### **A clear understanding of the linkages between the professional musical world and the broader community**

- An awareness of pertinent ethical, social and cultural issues and their importance in the exercise of professional skills and responsibilities
- Skills of a high order in interpersonal understanding, teamwork and communication
- An ability to apply effective, creative and innovative solutions, both independently and cooperatively, to current and future problems.





# Academic Program Rules

## Faculty of Sciences

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+ Please note there will be no further intake into these programs.

## Postgraduate Awards

- Professional Certificate in Urban Habitat Management
- Graduate Certificate in Agricultural Business
- Graduate Certificate in Biotechnology (Plant Biotechnology)
- Graduate Certificate in Oenology
- Graduate Certificate in Physics
- Graduate Certificate in Plant Health and Biosecurity
- Graduate Certificate in Sustainability
- Graduate Certificate in Viticulture
- Graduate Certificate in Wine Business
- Graduate Diploma in Agricultural Business
- Graduate Diploma in Biotechnology (Plant Biotechnology)
- Graduate Diploma in Oenology
- Graduate Diploma in Physics
- Graduate Diploma in Plant Health and Biosecurity
- Graduate Diploma in Sustainability
- Graduate Diploma in Viticulture
- Graduate Diploma in Wine Business
- Master of Agricultural Business
- Master of Agricultural Science
- Master of Applied Science
- Master of Biotechnology (Plant Biotechnology)
- Master of Oenology
- Master of Plant Health and Biosecurity
- Master of Science in the Faculty of Science
- Master of Science (Applied Physics)
- Master of Science (Astrophysics)
- Master of Science (Atmospheric Physics)

- Master of Science (Medical Physics)
- Master of Science (Optics and Lasers)
- Master of Science (Theoretical Physics)
- Master of Sustainability
- Master of Viticulture
- Master of Wine Business

**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

### Postgraduate Programs in Science

All postgraduate programs in the Faculty of Sciences have been planned within the framework of the Graduate Attributes of the University of Adelaide, outlined below

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.



# Graduate Certificate in Agricultural Business

**Note: This program involves courses that may be attended by both undergraduate and postgraduate students.**

## 1 Duration of program

To qualify for the Graduate Certificate in Agricultural Business, a candidate shall satisfactorily complete the equivalent of one semester of full-time study or not more than 4 semesters of part-time study.

## 2 Admission

2.1 An applicant for admission to the academic program for the Graduate Certificate in Agricultural Business shall have qualified for a degree of the University in an appropriate field of study or a degree of another institution in an appropriate field of study accepted by the Faculty for the purpose as equivalent to a degree of the University.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the Graduate Certificate a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of their fitness to undertake work for the Graduate Certificate.

### 2.3 Status, exemption and credit transfer

2.3.1 Except with special permission of the Faculty, no candidate will be granted status for any course which he or she has completed for another award.

2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for graduate level studies.

2.3.3 In any case, no candidate will be awarded more than 3 units of status.

2.3.4 A candidate who fails a course and is allowed to repeat that course shall, unless exempted partially there from by the Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

### 2.4 Articulation with other awards

2.4.1 Students who complete this program are also eligible to apply for entry to the Graduate Diploma in Agricultural Business program, and to be granted status for the work they have undertaken in the Graduate Certificate.

2.4.2 Students who have conferred upon them the award of Graduate Certificate in Agricultural Business who subsequently satisfy the requirements of the Graduate Diploma must surrender their Graduate Certificate before being admitted to the Graduate Diploma.

2.4.3 A candidate for the Graduate Diploma in Agricultural Business who does not complete the requirements for the Graduate Diploma but satisfies the requirements for the Graduate Certificate may be admitted to the Graduate Certificate.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Graduate Certificate: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 a 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.

b For the purpose of this Rule, a candidate who is refused permission to be assessed, by examination or otherwise, shall be deemed to have failed the course.

3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the Graduate Certificate a candidate shall satisfactorily complete core courses to the value of 9 units:

AGRIBUS 7009WT Issues in Australian Agribusiness .....	3
AGRIBUS 7012WT International Agribusiness Environment.....	3
AGRIBUS 7044WT Agricultural Business Management .....	3
Elective course to the value of 3 units chosen from Rule 4.1 of the Master of Agricultural Business...	3

### 4.2 Unacceptable combinations of courses

No candidate will be permitted to count for the award any course that, in the opinion of the Faculty, contains substantially the same material as any other course that he or she has already presented for another award; and no course or portion of a course may be counted twice towards the award.

### 4.3 Graduation

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

## 5 Special circumstances

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



# Graduate Certificate in Biotechnology (Plant Biotechnology)

## 1 Duration of program

To qualify for the Graduate Certificate in Biotechnology (Plant Biotechnology), a candidate shall satisfactorily complete the equivalent of one semester of full-time study or no more than 3 semesters of part-time study..

## 2 Admission

2.1 An applicant for admission to the academic program for the Graduate Certificate in Biotechnology (Plant Biotechnology) shall have qualified for a degree of the University, at an appropriate standard and in an appropriate field of study, or a degree of another institution in an appropriate field of study accepted by the Program Management Committee for the purpose as equivalent to a degree of the University.

2.2 The Program Management Committee may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the Graduate Certificate a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of their fitness to undertake work for the Graduate Certificate.

### 2.3 Status, exemption and credit transfer

2.3.1 Except with special permission of the Faculty, no candidate will be granted status for any course, which he or she has completed for another award.

2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for graduate level studies.

2.3.3 In any case, no candidate will be awarded more than 3 units of status.

2.3.4 A candidate who fails a course and is allowed to repeat that course shall, unless exempted partially there from by the Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

### 2.4 Articulation with other awards

2.4.1 Students who complete this program are also eligible to apply for entry to the Graduate Diploma in Biotechnology (Plant Biotechnology) program, and to be granted status for the work they have undertaken in the Graduate Certificate.

2.4.2 Students who have conferred upon them the award of Graduate Certificate in Biotechnology (Plant Biotechnology) who subsequently satisfy the requirements of the Graduate Diploma must

surrender their Graduate Certificate before being admitted to the Graduate Diploma.

2.4.3 A candidate for the Graduate Diploma in Biotechnology (Plant Biotechnology) who does not complete the requirements for the Graduate Diploma but satisfies the requirements for the Graduate Certificate may be admitted to the Graduate Certificate.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Graduate Certificate: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 a 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.

b For the purpose of this Rule, a candidate who is refused permission to be assessed, by examination or otherwise, shall be deemed to have failed the course.

3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the Graduate Certificate in Biotechnology (Plant Biotechnology), a candidate shall satisfactorily complete the following courses:

PLANT SC 7225WT Foundations of Plant Biotechnology .....	6
PLANT SC 7226WT Molecular Plant Breeding .....	3
PLANT SC 7227WT Plant Genomics .....	3

### 4.2 Unacceptable combinations of courses

No candidate will be permitted to count for the award any course that, in the opinion of the Faculty, contains substantially the same material as any other course that he or she has already presented for another award; and no course or portion of a course may be counted twice towards the award.

### 4.3 Graduation

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

## **5 Special circumstances**

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



# Graduate Certificate in Oenology

**Note: This program involves courses that may be attended by both undergraduate and postgraduate students.**

## 1 Duration of program

To qualify for the Graduate Certificate in Oenology, a candidate shall satisfactorily complete a program of study equivalent to one semester of full-time study or no more than four semesters of part-time study.

This program is only offered on a part time basis.

## 2 Admission

2.1 An applicant for admission to the academic program for the Graduate Certificate in Oenology shall have qualified for a Bachelor degree of the University of Adelaide in an appropriate field of study, or a degree of another institution accepted by the Faculty for the purpose as equivalent. Applicants are expected to have a science or engineering first degree but if this is not the case then applicants must have, as a minimum, the equivalent of first year university chemistry. At the University of Adelaide this chemistry requirement is equivalent to 25% full-time student load at first year.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the Graduate Certificate degree a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of their fitness to undertake work for the Graduate Certificate.

### 2.3 Status, exemption and credit transfer

2.3.1 No candidate will be permitted to count for the Graduate Certificate any course that, in the opinion of the Faculty, contains substantially the same material as any other course that he or she has already presented for another award. Except with special permission of the Faculty, no candidate will be granted status for any course that he or she has presented for any award.

2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for equivalent postgraduate level studies.

2.3.3 In any case, no candidate will be awarded more than 3 units of status.

2.3.4 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially by the Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

### 2.4 Articulation with other awards

2.4.1 Students who complete this program are also eligible to apply for entry to the Graduate Diploma in Oenology program, and to be granted status for the work they have undertaken in the Graduate Certificate.

2.4.2 Students who have conferred upon them the award of Graduate Certificate in Oenology who subsequently satisfy the requirements of the Graduate Diploma must surrender their Graduate Certificate before being admitted to the Graduate Diploma.

2.4.3 A candidate for the Graduate Diploma in Oenology who does not complete the requirements for the Graduate Diploma but satisfies the requirements for the Graduate Certificate may be admitted to the Graduate Certificate.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Graduate Certificate degree: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 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 purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

3.3 a A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

b Supplementary examinations are allowable only in exceptional circumstances. A candidate must apply for special permission from the Faculty.

## 4 Qualification requirements

To qualify for the Graduate Certificate, a candidate shall satisfactorily complete courses to the value of 12 units, as follows:

### 4.1 Academic program

All candidates shall complete the following 4 core courses:

OENOLOGY 7010WT Stabilisation and Clarification .....	3
OENOLOGY 7019WT Sensory Studies .....	3
OENOLOGY 7028WT Introductory Winemaking...	3
OENOLOGY 7047WT Winemaking at Vintage .....	3

### 4.2 Unacceptable combinations of courses

No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty

concerned, contains a substantial amount of the same material; and no course or portion of a course may be counted twice towards an award.

#### **4.3 Graduation**

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

#### **5 Special circumstances**

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

# Graduate Certificate in Physics

**Note:** This program involves courses that may be attended by both undergraduate and postgraduate students.

## 1 Duration of program

To qualify for the Graduate Certificate in Physics, a candidate shall satisfactorily complete a program of full-time study extending over at least one semester or part-time study extending over at least two semesters.

## 2 Admission

- 2.1 An applicant for admission to the program of study for the Graduate Certificate shall have qualified for a degree of the University of Adelaide or hold qualifications from another institution accepted by the University for the purpose; and obtained the approval of the Head of Physics.
- 2.2 Subject to the approval of Council, the Faculty may in special cases and subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the Graduate Certificate a person who does not hold the qualifications specified in 2.1 above but has given evidence satisfactory to the Faculty of their fitness to undertake work for the Graduate Certificate.

## 3 Assessment and examinations

- 3.1 There shall be four classifications of pass in each course for the Graduate Certificate: Pass with High Distinction, Pass with Distinction, Pass with Credit, and Pass.
- 3.2
- A candidate who fails in 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, unless specifically exempted after written application for such exemption.
  - A candidate who has twice failed the examination in any course or division of a course may not enrol for that course again except by special permission to be obtained in writing and then only under such conditions as may be prescribed.
  - For the purpose of this Rule, a candidate who is refused permission to sit for examination, or who fails, without a reason accepted by the Head of Physics, to attend all or part of a final examination (or supplementary examination if granted) after remaining enrolled for at least nine teaching weeks of that semester, shall be deemed to have failed the examination.

## 4 Qualification requirements

- 4.1 A candidate for the Graduate Certificate shall regularly attend lectures and tutorials, do such written work and practical work as may be

prescribed, and pass examinations in a selection of courses to an aggregate value of at least 12 units, including at least six units from the courses listed at 4.2(c).

## 4.2 Academic program

Courses may be chosen from:

- The following, to the value of no more than 6 units:

PHYSICS 7026 Computational Physics.....	2
PHYSICS 7027 Electromagnetism and Optics .....	3
PHYSICS 7028 Experimental Physics .....	3
PHYSICS 7030 Quantum Mechanics A .....	3
PHYSICS 7032 Advanced Dynamics and Relativity .....	3
PHYSICS 7035 Statistical Mechanics.....	2
PHYSICS 7040 Astrophysics .....	2
PHYSICS 7041 Atmospheric & Environmental Physics .....	2
PHYSICS 7042 Electromagnetism .....	2
PHYSICS 7043 Photonics .....	2
PHYSICS 7044 Physical Optics .....	2
PHYSICS 7207 Quantum Mechanics B.....	2
PHYSICS 7209 Photonics P.....	3
- Courses listed under Academic Program Rules for other Coursework Masters degrees offered by the Faculty of Sciences or the Faculty of Engineering, Computer and Mathematical Sciences, subject to approval by the Program Coordinator *and*
- the following courses to the value of no less than 6 units:

PHYSICS 7002 Advanced Astrophysics.....	3
PHYSICS 7003 Advanced Atmospheric and Environmental Physics .....	3
PHYSICS 7004 Advanced Electromagnetism ..	3
PHYSICS 7007 Experimental Methods .....	3
PHYSICS 7008 Gauge Theory .....	3
PHYSICS 7009 General Relativity.....	3
PHYSICS 7010 Laser Physics & Non-linear Optics .....	3
PHYSICS 7011 Nuclear & Radiation Physics...3	
PHYSICS 7012 Nuclear Theory & Particle Physics* .....	3
PHYSICS 7013 Quantum Field Theory .....	3
PHYSICS 7014 Relativistic Quantum Mechanics and Particle Physics.....	3

PHYSICS 7015 Statistical Mechanics and Many Body Theory* .....	3
PHYSICS 7104 Electronic Data Acquisition .....	3

\*not offered in 2009.

The courses to be offered in any year will be dependent on staff availability and student demand.

- 4.3 The Faculty may require a candidate to undertake additional work needed as background to the program.

**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 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.

## 1 Duration of program

To qualify for the Graduate Certificate In Pig Science and Management, a candidate shall satisfactorily complete a 12 unit program of study equivalent to one semester of full-time study. This program is only offered on a part time basis.

## 2 Admission

- 2.1 An applicant for admission to the program of study for the Graduate Certificate in Pig Science and Management degree must have qualified for a degree from the University, at an appropriate standard in appropriate field of study, or a degree of another institution, at an appropriate standard in an appropriate field of study, accepted by the Faculty for the purpose as equivalent to a degree of the University.
- 2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the degree a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of their fitness to undertake work for the degree.
- ### 2.3 Status, exemption and credit transfer
- 2.3.1 Except with special permission of the Faculty, no candidate will be granted status for any course which he or she has completed for another award.
- 2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for graduate level studies.
- 2.3.3 In any case, no candidate will be awarded more than 3 units of status.
- 2.3.4 A candidate who fails a course and is allowed to repeat that course shall, unless exempted partially there from by the Executive Dean of Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.
- ### 2.4 Articulation with other awards
- 2.4.1 Students who complete this program are also eligible to apply for entry to the Graduate Diploma in Pig Science and Management program, and to be granted status for the work that they have undertaken in the Graduate Certificate.
- 2.4.2 Students who have conferred upon them the award of Graduate Certificate in Pig Science and Management who subsequently satisfy the requirements of the Graduate Diploma must surrender their Graduate Certificate before being admitted to the Graduate Diploma.
- 2.4.3 A candidate for the Graduate Diploma in Pig Science and Management who does not complete

the requirements for the Graduate Diploma but satisfies the requirements for the Graduate Certificate may be admitted to the Graduate Certificate.

## 3 Assessment and examinations

- 3.1 There shall be four classifications of pass in any course for the Graduate Diploma degree: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.
- 3.2
- a 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.
  - b For the purpose of this Rule, a candidate who is refused permission to be assessed, by examination or otherwise, shall be deemed to have failed the course.
- 3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the degree of Graduate Certificate in Pig Science and Management candidates shall complete a program of study of 12 units as follows:

ANIML SC 7025RW Pig Production - Science into Practice .....	3
ANIML SC 7026RW Biotechnology in the Pork Industry.....	3
ANIML SC 7027RW Business Management for the Pork Industry .....	3
ANIML SC 7028RW Advanced Pig Nutrition.....	3

### 4.2 Unacceptable combinations of courses

No candidate will be permitted to count for the degree any course that, in the opinion of the Faculty, contains substantially the same material as any other course that he or she has already presented for another award; and no course or portion of a course may be counted twice towards the degree.

### 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.

## 1 Duration of program

To qualify for the Graduate Certificate in Plant Health and Biosecurity, a candidate shall satisfactorily complete the equivalent of one semester of full-time study or no more than 3 semesters of part-time study.

## 2 Admission

2.1 An applicant for admission to the academic program for the Graduate Certificate in Plant Health & Biosecurity shall have qualified for an Ordinary degree of the University in an appropriate field of study or a degree of another institution in an appropriate field of study accepted by the Program Management Committee for the purpose as equivalent to an Ordinary degree of the University

2.2 The Program Management Committee may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the Graduate Certificate a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of their fitness to undertake work for the Graduate Certificate.

## 2.3 Status, exemption and credit transfer

2.3.1 Except with special permission of the Faculty, no candidate will be granted status for any course, which he or she has completed for another award.

2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for graduate level studies.

2.3.3 In any case, no candidate will be awarded more than 3 units of status

2.3.4 A candidate who fails a course and is allowed to repeat that course shall, unless exempted partially there from by the Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

## 2.4 Articulation with other awards

2.4.1 Students who complete this program are also eligible to apply for entry to the Graduate Diploma in Plant Health & Biosecurity program, and to be granted status for the work they have undertaken in the Graduate Certificate.

2.4.2 Students who have conferred upon them the award of Graduate Certificate in Plant Health & Biosecurity who subsequently satisfy the requirements of the Graduate Diploma must surrender their Graduate Certificate before being admitted to the Graduate Diploma.

2.4.3 A candidate for the Graduate Diploma in Plant Health & Biosecurity who does not complete the requirements for the Graduate Diploma but satisfies the requirements for the Graduate Certificate in Plant Health & Biosecurity may be admitted to the Graduate Certificate in Plant Health & Biosecurity.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Graduate Certificate: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 a 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.

b For the purpose of this Rule, a candidate who is refused permission to be assessed, by examination or otherwise, shall be deemed to have failed the course.

3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the Graduate Certificate in Plant Health & Biosecurity, a candidate shall satisfactorily complete the following courses:

PLANT SC 7020WT Strategies and Practices for Pest Management & Eradication.....	3
PLANT SC 7220WT Foundations of Plant Health .....	6
PLANT SC 7222WT Advanced Principles Pest Management & Biosecurity .....	3

### 4.2 Unacceptable combinations of courses

No candidate will be permitted to count for the award any course that, in the opinion of the Faculty, contains substantially the same material as any other course that he or she has already presented for another award; and no course or portion of a course may be counted twice towards the award.

### 4.3 Graduation

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

## **5 Special circumstances**

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



# Graduate Certificate in Sustainability

**Note: This program involves courses that may be attended by both undergraduate and postgraduate students.**

## 1 Duration of program

To qualify for the Graduate Certificate in Sustainability, a candidate shall satisfactorily complete a program of study comprising one semester of full-time study or no more than four semesters of part-time study.

## 2 Admission

2.1 An applicant for admission to the academic program for the Graduate Certificate in Sustainability shall have qualified for a Bachelor degree of the University of Adelaide in an appropriate field of study, or a degree of another institution accepted by the Faculty for the purpose as equivalent.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the Graduate Certificate degree a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of their fitness to undertake work for the Graduate Certificate.

## 2.3 Status, exemption and credit transfer

2.3.1 No candidate will be permitted to count for the Graduate Certificate any course that, in the opinion of the Faculty, contains substantially the same material as any other course that he or she has already presented for another award. Except with special permission of the Faculty, no candidate will be granted status for any course that he or she has presented for any award.

2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for equivalent postgraduate level studies.

2.3.3 In any case, no candidate will be awarded more than 3 units of status.

2.3.4 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially there from by the Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Graduate Certificate degree: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

- 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
  - For the purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

To qualify for the Graduate Certificate, a candidate shall satisfactorily complete courses to the value of 12 units, as follows:

### 4.1 Academic program

Note: Candidates should note that courses offered in the Graduate Certificate in Sustainability are subject at all times to availability.

#### 4.1.1 Core Courses

All candidates shall complete the following core course:

ECON 7210 Climate Change:  
Mitigation & Adaptation ..... 3

*plus*

9 units from at least 2 of the 5 thematic areas of study:

#### Economics

Energy Management Economics and Policy ..... 3  
Introduction to Economics ..... 3  
GEST 5004 Environment Economics and Policy... 6

#### Governance

C&ENVENG 7044 Introduction to  
Environmental Law ..... 3  
COMMGMT 7011 Corporate Governance and  
Globalisation ..... 3  
GEST 5002 Environmental Planning and  
Governance ..... 6  
LAW 7068 International Energy Law ..... 3

#### Science & the Environment

ENV BIOL 7016 Climate Change: Past, Present  
and Future ..... 3  
ENV BIOL 7017 Issues in Sustainable Environ ... 3  
TECHCOMM 7025 Introduction to Climate  
Change ..... 3  
WRM 7026WT Integrated Catchment  
Management ..... 3

#### Social and Corporate Responsibility

CHEMENG 7032 Principles of Sustainability and  
Decision Making ..... 3  
COMMGMT 7012 Managing Social  
Responsibility ..... 3  
GEST 5005 Community Engagement ..... 6  
MANAGEMENT 7230 Understanding Organisational  
Sustainability ..... 3

TECHCOMM 7023 Carbon Impact and Strategy ..	3
TECHCOMM 7024 Complex Project Management .....	3
TECHCOMM 7033 Ongoing Carbon Management 1 .....	3
<b>Technology &amp; Innovation</b>	
<i>Chemical Engineering courses:</i>	
Biofuels .....	3
Frontier Technologies .....	3
<i>Electrical &amp; Electronic Engineering course:</i>	
Distributed Generation Technologies .....	3
<i>Mechanical Engineering courses:</i>	
Wind Turbine Design .....	3
MECHENG 7021 Combustion Technology and Emissions Control .....	3
MECHENG 7050 Sustainability & the Environment .....	3
TECHCOMM 7019 Social Entrepreneurship .....	3

#### 4.2 Unacceptable combinations of courses

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

#### 4.3 Graduation

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

### 5 Special circumstances

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

# Graduate Certificate in Urban Habitat Management

**Note:** There will be no further intake into this program.

## 1 Duration of program

To qualify for the Graduate Certificate in Urban Habitat Management, a candidate shall satisfactorily complete one semester of full-time study or not more than one year of part-time study.

## 2 Admission

2.1 An applicant for admission to the academic program for the Graduate Certificate in Urban Habitat Management shall have qualified for a degree of the University in an appropriate field of study or a degree of another institution in an appropriate field of study accepted by the Faculty for the purpose as equivalent to a degree of the University.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the Graduate Certificate a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of their fitness to undertake work for the Graduate Certificate.

### 2.3 Status, exemption and credit transfer

2.3.1 Except with special permission of the Faculty, no candidate will be granted status for any course which he or she has completed for another award.

2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for graduate level studies.

2.3.3 In any case, no candidate will be awarded more than 6 units of status.

2.3.4 A candidate who fails a course and is allowed to repeat that course shall, unless exempted partially there from by the Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

### 2.4 Articulation with other awards

2.4.1 Students who complete this program are also eligible to apply for entry to the Graduate Diploma in Urban Habitat Management program, and to be granted status for the work they have undertaken in the Graduate Certificate.

2.4.2 Students who have conferred upon them the award of Graduate Certificate in Urban Habitat Management who subsequently satisfy the requirements of the Graduate Diploma must surrender their Graduate Certificate before being admitted to the Graduate Diploma.

2.4.3 A candidate for the Graduate Diploma in Urban Habitat Management who does not complete the requirements for the Graduate Diploma but satisfies the requirements for the Graduate

Certificate may be admitted to the Graduate Certificate.

2.4.4 A candidate for the Graduate Certificate in Urban Habitat Management who does not complete the requirements for the Graduate Certificate but satisfies the requirements for the Professional Certificate may be admitted to the Professional Certificate.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Graduate Certificate: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 a 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.

b For the purpose of this Rule, a candidate who is refused permission to be assessed, by examination or otherwise, shall be deemed to have failed the course.

3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the Graduate Certificate, a candidate shall satisfactorily complete two of the following courses:

GEST 5002 Environmental Planning & Governance.....	6
URBH 7100 Designing Urban Habitats for Biodiversity.....	6
URBH 7200 Managing Wildlife in Urban Habitats.....	6
URBH 7201 Managing Urban Vegetation.....	6

### 4.2 Unacceptable combinations of courses

No candidate will be permitted to count for the award any course that, in the opinion of the Faculty, contains substantially the same material as any other course that he or she has already presented for another award; and no course or portion of a course may be counted twice towards the award.

### 4.3 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award

of the University shall be admitted to that award at a graduation ceremony for the purpose.

## **5 Special circumstances**

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

# Graduate Certificate in Viticulture

**Note: This program involves courses that may be attended by both undergraduate and postgraduate students.**

## 1 Duration of program

To qualify for the Graduate Certificate in Viticulture, a candidate shall satisfactorily complete a program of study comprising the equivalent of one semester of full-time study or no more than four semesters of part-time study.

## 2 Admission

2.1 An applicant for admission to the academic program for the Graduate Certificate in Viticulture shall have qualified for a Bachelor degree of the University of Adelaide in an appropriate field of study, or a degree of another institution accepted by the Faculty for the purpose as equivalent.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the Graduate Certificate degree a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of their fitness to undertake work for the Graduate Certificate.

## 2.3 Status, exemption and credit transfer

2.3.1 No candidate will be permitted to count for the Graduate Certificate any course that, in the opinion of the Faculty, contains substantially the same material as any other course that he or she has already presented for another award. Except with special permission of the Faculty, no candidate will be granted status for any course that he or she has presented for any award.

2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for equivalent postgraduate level studies.

2.3.3 In any case, no candidate will be awarded more than 3 units of status.

2.3.4 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially by the Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

## 2.4 Articulation with other awards

2.4.1 Students who complete this program are also eligible to apply for entry to the Graduate Diploma in Viticulture program, and to be granted status for the work they have undertaken in the Graduate Certificate.

2.4.2 Students who have conferred upon them the award of Graduate Certificate in Viticulture who subsequently satisfy the requirements of the Graduate Diploma must surrender their Graduate Certificate before being admitted to the Graduate Diploma.

2.4.3 A candidate for the Graduate Diploma in Viticulture who does not complete the requirements for the Graduate Diploma but satisfies the requirements for the Graduate Certificate may be admitted to the Graduate Certificate.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Graduate Certificate degree: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 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 purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

To qualify for the Graduate Certificate, a candidate shall satisfactorily complete courses to the value of 12 units, as follows:

### 4.1 Academic program

#### 4.1.1 Core Courses

All candidates shall complete the following core courses:

VITICULT 7002WT Viticultural Science.....	3
VITICULT 7021WT Viticultural Production .....	3
VITICULT 7038WT Viticultural Methods & Procedures.....	3

#### 4.1.2 Elective Courses

All candidates shall complete one elective course from the following:

AGRONOMY 7130WT Viticultural Engineering & Irrigation.....	3
VITICULT 7001WT Advances in Viticultural Sciences.....	3

Plus other electives chosen from postgraduate programs offered by the Faculty, subject to prior approval of the Program Coordinator.

Note: a candidate who is a graduate of the University of Adelaide in the B.Agric.Sc.(Oenology) or B.Oenology will have the core courses VITICULT 7002WT Viticultural Science and VITICULT 7021WT Viticultural Production replaced by VITICULT 7001WT Advances in Viticultural Science and an elective course.

#### **4.2 Unacceptable combinations of courses**

No candidate will be permitted to count for the award any course that, in the opinion of the Faculty, contains substantially the same material as any other course that he or she has already presented for another award; and no course or portion of a course may be counted twice towards the award.

#### **4.3 Graduation**

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

### **5 Special circumstances**

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



# Graduate Certificate in Wine Business

**Note: This program involves courses that may be attended by both undergraduate and postgraduate students.**

## 1 Duration of program

To qualify for the Graduate Certificate in Wine Business, a candidate shall satisfactorily complete a program of study comprising the equivalent of one semester of full-time study or no more than 4 semesters of part-time study.

## 2 Admission

2.1 An applicant for admission to the academic program for the Graduate Certificate in Wine Business shall have qualified for a Bachelor degree of the University of Adelaide in an appropriate field of study, or a degree of another institution accepted by the Faculty for the purpose as equivalent.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the Graduate Certificate degree a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of their fitness to undertake work for the Graduate Certificate.

### 2.3 Status, exemption and credit transfer

2.3.1 No candidate will be permitted to count for the Graduate Certificate any course that, in the opinion of the Faculty, contains substantially the same material as any other course that he or she has already presented for another award. Except with special permission of the Faculty, no candidate will be granted status for any course that he or she has presented for any award.

2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for equivalent post-graduate level studies.

2.3.3 In any case, no candidate will be awarded more than 3 units of status.

2.3.4 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially by the Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

### 2.4 Articulation with other awards

2.4.1 Students who complete this program are also eligible to apply for entry to the Graduate Diploma in Wine Business program, and to be granted status for the work they have undertaken in the Graduate Certificate.

2.4.2 Students who have conferred upon them the award of Graduate Certificate in Wine Business who subsequently satisfy the requirements of the Graduate Diploma must surrender their Graduate Certificate before being admitted to the Graduate Diploma.

2.4.3 A candidate for the Graduate Diploma in Wine Business who does not complete the requirements for the Graduate Diploma but satisfies the requirements for the Graduate Certificate may be admitted to the Graduate Certificate

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the graduate certificate: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 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 purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

To qualify for the Graduate Certificate, a candidate shall satisfactorily complete courses to the value of 12 units, as follows:

### 4.1 Academic program

All candidates shall complete courses chosen from Rule 4.1 of the Master of Wine Business. At least one must be:

WINEMKTG 7049WT/EX Global Wine Market..... 3

or

WINEMKTG 7067WT/EX Winery Business Management A..... 6

### 4.2 Unacceptable combinations of courses

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

### 4.3 Graduation

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

## **5 Special circumstances**

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



# Graduate Diploma in Agricultural Business

**Note:** This program involves courses that may be attended by both undergraduate and postgraduate students.

## 1 Duration of program

To qualify for the Graduate Diploma in Agricultural Business, a candidate shall satisfactorily complete the equivalent of two semesters of full-time study or no more than eight semesters of part-time study.

## 2 Admission

2.1 An applicant for admission to the program of study for the Graduate Diploma in Agricultural Business shall have qualified for a degree of the University in an appropriate field of study or a degree of another institution in an appropriate field of study accepted by the Faculty for the purpose as equivalent to a degree of the University.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the Graduate Diploma a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of their fitness to undertake work for the Graduate Diploma.

## 2.3 Status, exemption and credit transfer

2.3.1 Except with special permission of the Faculty, no candidate will be granted status for any course which he or she has completed for another award.

2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for graduate level studies.

2.3.3 In any case, no candidate will be awarded more than 6 units of status.

2.3.4 A candidate who fails a course and is allowed to repeat that course shall, unless exempted partially there from by the Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

## 2.4 Articulation with other awards

2.4.1 Students who complete this program are also eligible to apply for entry to the Master of Agricultural Business program, and to be granted status for the work they have undertaken in the Graduate Diploma.

2.4.2 Students who have conferred upon them the award of Graduate Diploma in Agricultural Business who subsequently satisfy the requirements of the Masters program must surrender their Graduate Diploma before being admitted to the Master of Agricultural Business.

2.4.3 A candidate for the Master of Agricultural Business who does not complete the requirements for the Masters but satisfies the requirements for the Graduate Diploma may be admitted to the Graduate Diploma.

2.4.4 A candidate for the Graduate Diploma in Agricultural Business who does not complete the requirements for the Graduate Diploma but satisfies the requirements for the Graduate Certificate may be admitted to the Graduate Certificate.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Graduate Diploma: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 a 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.

b for the purpose of this Rule, a candidate who is refused permission to be assessed, by examination or otherwise, shall be deemed to have failed the course.

3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the Graduate Diploma a candidate shall satisfactorily complete core courses to the value of 9 units:

AGRIBUS 7009WT Issues in Australian Agribusiness .....	3
AGRIBUS 7012WT International Agribusiness Environment.....	3
AGRIBUS 7044WT Agricultural Business Management .....	3

Elective courses to the value of 15 units chosen from Rule 4.1 of the Master of Agricultural Business .....

15
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### 4.2 Unacceptable combinations of courses


No candidate will be permitted to count for the award any course that, in the opinion of the Faculty, contains substantially the same material as any other course that he or she has already presented for another award; and no course or portion of a course may be counted twice towards the award.

### 4.3 Graduation

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

## 5 **Special circumstances**

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



# Graduate Diploma in Biotechnology (Plant Biotechnology)

## 1 Duration of program

To qualify for the Graduate Diploma in Biotechnology (Plant Biotechnology), a candidate shall satisfactorily complete the equivalent of two semesters of full-time study or no more than 7 semesters of part-time study.

## 2 Admission

2.1 An applicant for admission to the program of study for the Graduate Diploma in Biotechnology (Plant Biotechnology) shall have qualified for a degree of the University in an appropriate field of study or a degree of another institution in an appropriate field of study accepted by the Program Management Committee for the purpose as equivalent to a degree of the University.

2.2 The Program Management Committee may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the Graduate Diploma a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Committee of their fitness to undertake work for the Graduate Diploma.

## 2.3 Status, exemption and credit transfer

2.3.1 Except with special permission of the Faculty, no candidate will be granted status for any course, which he or she has completed for another award.

2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for graduate level studies.

2.3.3 In any case, no candidate will be awarded more than 6 units of status.

2.3.4 A candidate who fails a course and is allowed to repeat that course shall, unless exempted partially there from by the Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

## 2.4 Articulation with other awards

2.4.1 Students who complete this program are also eligible to apply for entry to the Master of Biotechnology (Plant Biotechnology) program, and to be granted status for the work they have undertaken in the Graduate Diploma.

2.4.2 Students who have conferred upon them the award of Graduate Diploma in Biotechnology (Plant Biotechnology) who subsequently satisfy the requirements of the Masters program must surrender their Graduate Diploma before being admitted to the Master of Biotechnology (Plant Biotechnology).

2.4.3 A candidate for the Master of Biotechnology (Plant Biotechnology), who does not complete the requirements for the Masters but satisfies the requirements for the Graduate Diploma may be admitted to the Graduate Diploma.

2.4.4 A candidate for the Graduate Diploma in Biotechnology (Plant Biotechnology), who does not complete the requirements for the Graduate Diploma but satisfies the requirements for the Graduate Certificate may be admitted to the Graduate Certificate.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Graduate Diploma: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 a 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.

b For the purpose of this Rule, a candidate who is refused permission to be assessed, by examination or otherwise, shall be deemed to have failed the course.

3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the Graduate Diploma in Biotechnology (Plant Biotechnology) a candidate shall satisfactorily complete the following courses:

PLANT SC 7225WT Foundations of Plant Biotechnology .....	6
PLANT SC 7226WT Molecular Plant Breeding .....	3
PLANT SC 7227WT Plant Genomics .....	3
PLANT SC 7123WT Applications of Plant Biotechnology in Production .....	3
PLANT SC 7124WT Applications of Plant Biotechnology in Health and Nutrition .....	3
PLANT SC 7125WT Management, Commercialisation & Regulation in Plant Biotechnology .....	3
PLANT SC 7126WT Techniques in Plant Biotechnology .....	3

#### **4.2 Unacceptable combinations of courses**

No candidate will be permitted to count for the award any course that, in the opinion of the Program Management Committee, contains substantially the same material as any other course that he or she has already presented for another award; and no course or portion of a course may be counted twice towards the award.

#### **4.3 Graduation**

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

### **5 Special circumstances**

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

**Note: This program involves courses that may be attended by both undergraduate and postgraduate students.**

## 1 Duration of program

To qualify for the Graduate Diploma in Oenology, a candidate shall satisfactorily complete a program of study comprising the equivalent of two semester of full-time study or no more than eight semesters of part-time study.

## 2 Admission

2.1 An applicant for admission to the academic program for the Graduate Diploma in Oenology shall have qualified for a Bachelor degree of the University of Adelaide in an appropriate field of study, or a degree of another institution accepted by the Faculty for the purpose as equivalent. Applicants are expected to have a science or engineering first degree but if this is not the case then applicants must have, as a minimum, the equivalent of 1st year university chemistry. At the University of Adelaide this chemistry requirement is equivalent to 25% full time student load at first year.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the Graduate Diploma a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of their fitness to undertake work for the Graduate Diploma.

### 2.3 Status, exemption and credit transfer

2.3.1 No candidate will be permitted to count for the Graduate Diploma any course that, in the opinion of the Faculty, contains substantially the same material as any other course that he or she has already presented for another award. Except with special permission of the Faculty, no candidate will be granted status for any course that he or she has presented for any award.

2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for equivalent postgraduate level studies.

2.3.3 In any case, no candidate will be awarded more than 6 units of status, except for those candidates who have completed the Graduate Certificate in Oenology.

2.3.4 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially by the Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

### 2.4 Articulation with other awards

2.4.1 Students who complete this program are also eligible to apply for entry to the Master of Oenology program, and to be granted status for

the work they have undertaken in the Graduate Diploma.

2.4.2 A candidate for the Graduate Diploma of Oenology who does not complete the requirements for the Graduate Diploma but satisfies the requirements for the Graduate Certificate in Oenology may be admitted to the Graduate Certificate, subject to the student discontinuing candidature for the Graduate Diploma.

2.4.3 A candidate who has been admitted to the Graduate Certificate in Oenology and who subsequently satisfies the requirements for the Graduate Diploma of Oenology must surrender the Graduate Certificate before being admitted to the Graduate Diploma.

2.4.4 Students who have conferred upon them the award of Graduate Diploma in Oenology who subsequently satisfy the requirements of the Master must surrender their Graduate Diploma before being admitted to the Master.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Graduate Diploma: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 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 purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

To qualify for the Graduate Diploma, a candidate shall satisfactorily complete courses to the value of 24 units, as follows:

### 4.1 Academic program

#### 4.1.1 Core Courses

All candidates shall complete the following core courses:

OENOLOGY 7010WT Stabilisation and Clarification .....	3
OENOLOGY 7019WT Sensory Studies .....	3
OENOLOGY 7022WT Cellar and Winery Waste Management .....	3
OENOLOGY 7028WT Introductory Winemaking ..	3

OENOLOGY 7046WT Fermentation Technology...	3
OENOLOGY 7047WT Winemaking at Vintage.....	3

**4.1.2 Elective Courses**

All candidates shall complete elective courses selected from the following:

CHEM ENG 7010WT Winery Engineering III.....	3
OENOLOGY 7038WT Distillation, Fortified and Sparkling Wine making.....	3
OENOLOGY 7048WT Advances in Oenology.....	3
VITICULT 7002WT Viticultural Science.....	3
VITICULT 7021WT Viticultural Production.....	3

plus other electives from postgraduate programs offered by the Faculty as deemed appropriate by the program coordinator.

**4.2 Unacceptable combinations of courses**

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

**4.3 Graduation**

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

**5 Special circumstances**

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

**Note: This program involves courses that may be attended by both undergraduate and postgraduate students.**

## 1 Duration of program

To qualify for the Graduate Diploma in Physics, a candidate shall satisfactorily complete a program the equivalent of full-time study extending over at least one year, or part-time study extending over at least two years.

## 2 Admission

- 2.1 An applicant for admission to the program of study for the Graduate Diploma shall:
- have qualified for a degree of the University or for a degree of another institution accepted for the purpose by the University
  - have obtained the approval of the Head of Physics.
- 2.2 Subject to the approval of the Council the Faculty may, in special cases and subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the Graduate Diploma a person who does not qualify for admission to the course under 2.1 above but has given evidence satisfactory to the Faculty of their fitness to undertake work for the Graduate Diploma.

## 3 Assessment and examinations

- 3.1 There shall be four classifications of pass in each course for the Graduate Diploma: Pass with High Distinction, Pass with Distinction, Pass with Credit, and Pass.
- 3.2
- A candidate who fails to pass in 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, unless specifically exempted after written application for such exemption.
  - A candidate who has twice failed the examination in any course or division of a course may not enrol for that course again except by special permission to be obtained in writing and then only under such conditions as may be prescribed.
  - For the purpose of this Rule a candidate who is refused permission to sit for examination, or who, without a reason accepted by the Head of Physics as adequate, fails to attend all or part of a final examination (or supplementary examination if granted) after remaining enrolled for at least nine teaching weeks of that semester, shall be deemed to have failed the examination.

## 4 Qualification requirements

- 4.1 To qualify for the degree a candidate shall:
- satisfy examiners in courses of study as prescribed in the academic Program Rules *and*
  - present a satisfactory research report on a subject approved by the Head of Physics.
- 4.2 On the completion of the research report the candidate shall lodge with the Head of Physics three copies of the research report prepared in accordance with directions given to candidates from time to time. No research report or material presented for any other degree within this or any other institution shall be submitted.
- ### 4.3 Academic Program
- Unless exempted by the Faculty every candidate for the degree shall satisfactorily complete units to the value of at least 24 units from the following components.
- 4.3.1 Coursework comprising options with an aggregate value of at least 18 units, including at least nine units from the courses listed in (iii). These courses may be chosen from:
- The following list, the value of no more than 9 units:
 

PHYSICS 7026 Computational Physics .....	2
PHYSICS 7027 Electromagnetism and Optics .....	3
PHYSICS 7028 Experimental Physics .....	3
PHYSICS 7030 Quantum Mechanics A .....	3
PHYSICS 7032 Advanced Dynamics and Relativity .....	3
PHYSICS 7035 Statistical Mechanics.....	2
PHYSICS 7040 Astrophysics .....	2
PHYSICS 7041 Atmospheric & Environmental Physics .....	2
PHYSICS 7042 Electromagnetism .....	2
PHYSICS 7043 Photonics .....	2
PHYSICS 7044 Physical Optics .....	2
PHYSICS 7207 Quantum Mechanics B.....	2
PHYSICS 7209 Photonics P.....	3
  - Courses listed under Academic Program Rules for other Coursework Masters degrees offered by the Faculty of Sciences or the Faculty of Engineering, Computer and Mathematical Sciences, subject to approval by the Program Coordinator *and*

iii	The following courses	
	PHYSICS 7002 Advanced Astrophysics .....	3
	PHYSICS 7003 Advanced Atmospheric and Environmental Physics .....	3
	PHYSICS 7004 Advanced Electromagnetism	3
	PHYSICS 7005 Atomic and Molecular Physics.....	3
	PHYSICS 7007 Experimental Methods .....	3
	PHYSICS 7008 Gauge Theory .....	3
	PHYSICS 7009 General Relativity.....	3
	PHYSICS 7010 Laser Physics & Non-linear Optics.....	3
	PHYSICS 7011 Nuclear & Radiation Physics...3	
	PHYSICS 7012 Nuclear Theory & Particle Physics* .....	3
	PHYSICS 7013 Quantum Field Theory .....	3
	PHYSICS 7014 Relativistic Quantum Mechanics and Particle Physics.....	3
	PHYSICS 7015 Statistical Mechanics and Many Body Theory* .....	3
	PHYSICS 7104 Electronic Data Acquisition ....	3

*\* not offered in 2009.*

Note: The courses to be offered in any year will be dependent on staff availability and student demand.

- 4.3.2 An approved research project with a total value of 6 units:  
PHYSICS 7100 Diploma Project (Physics) A .....

*or*

PHYSICS 7200 Diploma Project (Physics) B .....

- 4.4 The Faculty may require a candidate to undertake additional work needed as background to the program.

#### 4.5 Unacceptable combinations of courses

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

#### 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.



## 1 Duration of program

To qualify for the Graduate Diploma In Pig Science and Management, a candidate shall satisfactorily complete a 24 unit program of study equivalent to two semesters of full-time study. This program is only offered on a part time basis.

## 2 Admission

- 2.1 An applicant for admission to the program of study for the Graduate Diploma in Pig Science and Management degree must have qualified for a degree from the University, at an appropriate standard in appropriate field of study, or a degree of another institution, at an appropriate standard in an appropriate field of study, accepted by the Faculty for the purpose as equivalent to a degree of the University.
- 2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the degree a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of their fitness to undertake work for the degree.
- ### 2.3 Status, exemption and credit transfer
- 2.3.1 Except with special permission of the Faculty, no candidate will be granted status for any course which he or she has completed for another award.
- 2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for graduate level studies.
- 2.3.3 In any case, no candidate will be awarded more than 6 units of status.
- 2.3.4 A candidate who fails a course and is allowed to repeat that course shall, unless exempted partially there from by the Executive Dean of Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.
- ### 2.4 Articulation with other awards
- 2.4.1 Students who complete this program are also eligible to apply for entry to the Master of Pig Science and Management program, and to be granted status for the work they have undertaken in the Graduate Diploma
- 2.4.2 A candidate for the Graduate Diploma in Pig Science and Management who does not complete the requirements for the Graduate Diploma but satisfies the requirements for the Graduate Certificate in Pig Science and Management may be admitted to that award as appropriate.

- 2.4.3 A candidate who has been admitted to the Graduate Certificate in Pig Science and Management and who subsequently satisfies the requirements for the Graduate Diploma in Pig Science and Management must surrender the Graduate Certificate before being admitted to the Graduate Diploma degree.
- 2.4.4 Students who have conferred upon them the award of Graduate Diploma in Pig Science and Management who subsequently satisfy the requirements of the Master must surrender their Graduate Diploma before being admitted to the Master.

## 3 Assessment and examinations

- 3.1 There shall be four classifications of pass in any course for the Graduate Diploma degree: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.
- 3.2
- 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.
  - For the purpose of this Rule, a candidate who is refused permission to be assessed, by examination or otherwise, shall be deemed to have failed the course.
- 3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the degree of Graduate Diploma in Pig Science and Management candidates shall complete a program of study to a total of 24 units as follows:

ANIML SC 7025RW Pig Production - Science into Practice.....	3
ANIML SC 7026RW Biotechnology in the Pork Industry .....	3
ANIML SC 7027RW Business Management for the Pork Industry.....	3
ANIML SC 7028RW Advanced Pig Nutrition.....	3
ANIML SC 7029RW Pig Health .....	3
ANIML SC 7030RW Science & Marketing of Pig Meat .....	3
ANIML SC 7031RW Industry Placement (Pig Science & Management) .....	6

#### **4.2 Unacceptable combinations of courses**

No candidate will be permitted to count for the degree any course that, in the opinion of the Faculty, contains substantially the same material as any other course that he or she has already presented for another award; and no course or portion of a course may be counted twice towards the degree.

#### **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

## 1 Duration of program

To qualify for the Graduate Diploma in Plant Health and Biosecurity, a candidate shall satisfactorily complete the equivalent of two semester of full-time study or no more than 7 semesters of part-time study.

## 2 Admission

2.1 An applicant for admission to the program of study for the Graduate Diploma in Plant Health & Biosecurity shall have qualified for an Ordinary degree of the University in an appropriate field of study or a degree of another institution in an appropriate fields of study accepted by the Program Management Committee for the purpose as equivalent to an Ordinary degree of the University.

2.2 The Program Management Committee may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the Graduate Diploma a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Committee of their fitness to undertake work for the Graduate Diploma.

### 2.3 Status, exemption and credit transfer

2.3.1 Except with special permission of the Faculty, no candidate will be granted status for any course, which he or she has completed for another award.

2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for graduate level studies.

2.3.3 In any case, no candidate will be awarded more than 6 units of status.

2.3.4 A candidate who fails a course and is allowed to repeat that course shall, unless exempted partially there from by the Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

### 2.4 Articulation with other awards

2.4.1 Students who complete this program are also eligible to apply for entry to the Master of Plant Health & Biosecurity program, and to be granted status for the work they have undertaken in the Graduate Diploma.

2.4.2 Students who have conferred upon them the award of Graduate Diploma in Plant Health & Biosecurity who subsequently satisfy the requirements of the Masters program must surrender their Graduate Diploma before being admitted to the Master of Plant Health & Biosecurity.

2.4.3 A candidate for the Master of Plant Health & Biosecurity, who does not complete the requirements for the Masters but satisfies the requirements for the Graduate Diploma in Plant Health & Biosecurity may be admitted to the Graduate Diploma in Plant Health & Biosecurity.

2.4.4 A candidate for the Graduate Diploma in Plant Health & Biosecurity, who does not complete the requirements for the Graduate Diploma but satisfies the requirements for the Graduate Certificate in Plant Health & Biosecurity may be admitted to the Graduate Certificate in Plant Health & Biosecurity.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Graduate Diploma: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 a 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.

b For the purpose of this Rule, a candidate who is refused permission to be assessed, by examination or otherwise, shall be deemed to have failed the course.

3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the Graduate Diploma in Plant Health & Biosecurity a candidate shall satisfactorily complete courses to the value of 24 units as follows:

PLANT SC 7020WT Strategies & Practices for Pest Management & Eradication.....	3
PLANT SC 7120WT Molecular and Biochemical Diagnostic Methods in Plant Health .....	3
PLANT SC 7121WT Biosecurity and Incursion Management .....	3
PLANT SC 7122WT Management & Regulation of Plant Health.....	3
PLANT SC 7220WT Foundations of Plant Health...	6
PLANT SC 7221WT Classical Diagnostic Methods in Plant Health.....	3
PLANT SC 7222WT Advanced Principles of Pest Management & Biosecurity.....	3

#### **4.2 Unacceptable combinations of courses**

No candidate will be permitted to count for the award any course that, in the opinion of the Program Management Committee, contains substantially the same material as any other course that he or she has already presented for another award; and no course or portion of a course may be counted twice towards the award.

#### **4.3 Graduation**

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

### **5 Special circumstances**

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

Note: This program involves courses that may be attended by both undergraduate and postgraduate students.

**Note: This program involves courses that may be attended by both undergraduate and postgraduate students.**

## 1 Duration of program

To qualify for the Graduate Diploma in Sustainability, a candidate shall satisfactorily complete a program of study comprising two semesters of full-time study or no more than eight semesters of part-time study.

## 2 Admission

2.1 An applicant for admission to the academic program for the Graduate Diploma in Sustainability shall have qualified for a Bachelor degree of the University of Adelaide in an appropriate field of study, or a degree of another institution accepted by the Faculty for the purpose as equivalent.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the Graduate Diploma a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of their fitness to undertake work for the Graduate Diploma.

## 2.3 Status, exemption and credit transfer

2.3.1 No candidate will be permitted to count for the Graduate Diploma any course that, in the opinion of the Faculty, contains substantially the same material as any other course that he or she has already presented for another award. Except with special permission of the Faculty, no candidate will be granted status for any course that he or she has presented for any award.

2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for equivalent post-graduate level studies.

2.3.3 In any case, no candidate will be awarded more than 6 units of status, except for those candidates who have completed the Graduate Certificate in Sustainability.

2.3.4 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially by the Faculty again complete the required work in the course to the satisfaction of the teaching staff concerned.

## 2.4 Articulation with other awards

2.4.1 A candidate for the Graduate Diploma of Sustainability who does not complete the requirements for the Graduate Diploma but satisfies the requirements for the Graduate Certificate in Sustainability may be admitted to the Graduate Certificate, subject to the student discontinuing candidature for the Graduate Diploma.

2.4.2 A candidate who has been admitted to the Graduate Certificate in Sustainability and who subsequently satisfies the requirements for the Graduate Diploma of Sustainability must surrender the Graduate Certificate before being admitted to the Graduate Diploma.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Graduate Diploma: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

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. (b) for the purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

To qualify for the Graduate Diploma, a candidate shall satisfactorily complete courses to the value of 24 units, as follows.

Note: Candidates should note that courses offered in the Graduate Diploma in Sustainability are subject, at all times, to availability.

### 4.1.1 Core Courses

All candidates shall complete the following core course:

ECON 7210 Climate Change: Mitigation & Adaptation .....3  
*p/us*

21 units from at least 4 of the following 5 thematic areas of study:

#### Economics

Energy Management Economics and Policy .....3  
ECON 7200 Economic Principles .....3  
GEST 5004 Environment Economics and Policy...6

#### Governance

C&ENVENG 7044 Introduction to Environmental Law .....3  
COMMGMT 7011 Corporate Governance and Globalisation .....3

GEST 5002 Environmental Planning and Governance.....	6
LAW 7068 International Energy Law.....	3

**Science & the Environment**

ENV BIOL 7016 Climate Change: Past, Present and Future .....	3
ENV BIOL 7017 Issues in Sustainable Environs ...	3
TECHCOMM 7025 Introduction to Climate Change.....	3
WRM 7026WT Integrated Catchment Management .....	3

**Social and Corporate Responsibility**

CHEMENG 7032 Principles of Sustainability and Decision Making.....	3
COMMGMT 7012 Managing Social Responsibility.....	3
GEST 5005 Community Engagement .....	6
MANAGEMENT 7230 Understanding Organisational Sustainability.....	3
TECHCOMM 7023 Carbon Impact and Strategy ..	3
TECHCOMM 7024 Complex Project Management .....	3
TECHCOMM 7033 Ongoing Carbon Management 1 .....	3

**Technology & Innovation**

*Chemical Engineering courses:*

Biofuels.....	3
Frontier Technologies .....	3

*Electrical & Electronic Engineering course:*

Distributed Generation Technologies .....	3
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*Mechanical Engineering courses:*

Wind Turbine Design .....	3
MECHENG 7021 Combustion Technology and Emissions Control .....	3
MECHENG 7050 Sustainability & the Environment .....	3
TECHCOMM 7019 Social Entrepreneurship .....	3

**4.2 Unacceptable combinations of courses**

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

**4.3 Graduation**

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

**5 Special circumstances**

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

# Graduate Diploma in Urban Habitat Management

**Note: There will be no further intake into this program.**

## 1 Duration of program

To qualify for the Graduate Diploma in Urban Habitat Management, a candidate shall satisfactorily complete one year of full-time study or no more than two years of part-time study.

## 2 Admission

2.1 An applicant for admission to the program of study for the Graduate Diploma in Urban Habitat Management shall have qualified for a degree of the University in an appropriate field of study or a degree of another institution in an appropriate fields of study accepted by the Faculty for the purpose as equivalent to a degree of the University.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the Graduate Diploma a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of their fitness to undertake work for the Graduate Diploma.

### 2.3 Status, exemption and credit transfer

2.3.1 Except with special permission of the Faculty, no candidate will be granted status for any course which he or she has completed for another award.

2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for graduate level studies.

2.3.3 In any case, no candidate will be awarded more than 6 units of status.

2.3.4 A candidate who fails a course and is allowed to repeat that course shall, unless exempted partially there from by the Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

### 2.4 Articulation with other awards

2.4.1 Students who complete this program are also eligible to apply for entry to the Master of Urban Habitat Management program, and to be granted status for the work they have undertaken in the Graduate Diploma.

2.4.2 Students who have conferred upon them the award of Graduate Diploma in Urban Habitat Management who subsequently satisfy the requirements of the Masters program must surrender their Graduate Diploma before being admitted to the Master of Urban Habitat Management.

2.4.3 A candidate for the Master of Urban Habitat Management who does not complete the requirements for the Masters but satisfies the

requirements for the Graduate Diploma may be admitted to the Graduate Diploma.

2.4.4 A candidate for the Graduate Diploma in Urban Habitat Management who does not complete the requirements for the Graduate Diploma but satisfies the requirements for the Graduate Certificate may be admitted to the Graduate Certificate.

2.4.5 A candidate for the Graduate Diploma in Urban Habitat Management who does not complete the requirements for the Graduate Diploma but satisfies the requirements for the Professional Certificate may be admitted to the Professional Certificate.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Graduate Diploma: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 a 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.  
b For the purpose of this Rule, a candidate who is refused permission to be assessed, by examination or otherwise, shall be deemed to have failed the course.

3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the Graduate Diploma a candidate shall satisfactorily complete courses to the value of 24 units as follows:

GEST 5002 Environmental Planning & Governance.....	6
URBH 7100 Designing Urban Habitats for Biodiversity.....	6
URBH 7200 Managing Wildlife in Urban Habitats.....	6
URBH 7201 Managing Urban Vegetation.....	6

### 4.2 Unacceptable combinations of courses

No candidate will be permitted to count for the award any course that, in the opinion of the Faculty, contains substantially the same material as any other course that he or she has already

presented for another award; and no course or portion of a course may be counted twice towards the award.

#### **4.3 Graduation**

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

#### **5 Special circumstances**

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



# Graduate Diploma in Viticulture

**Note: This program involves courses that may be attended by both undergraduate and postgraduate students.**

## 1 Duration of program

To qualify for the Graduate Diploma in Viticulture, a candidate shall satisfactorily complete a program of study comprising the equivalent of two semester of full-time study or no more than eight semesters of part-time study.

## 2 Admission

2.1 An applicant for admission to the academic program for the Graduate Diploma in Viticulture shall have qualified for a Bachelor degree of the University of Adelaide in an appropriate field of study, or a degree of another institution accepted by the Faculty for the purpose as equivalent.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the Graduate Diploma a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of their fitness to undertake work for the Graduate Diploma.

### 2.3 Status, exemption and credit transfer

2.3.1 No candidate will be permitted to count for the Graduate Diploma any course that, in the opinion of the Faculty, contains substantially the same material as any other course that he or she has already presented for another award. Except with special permission of the Faculty, no candidate will be granted status for any course that he or she has presented for any award.

2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for equivalent post-graduate level studies.

2.3.3 In any case, no candidate will be awarded more than 6 units of status, except for those candidates who have completed the Graduate Certificate in Viticulture.

2.3.4 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially by the Faculty again complete the required work in the course to the satisfaction of the teaching staff concerned.

### 2.4 Articulation with other awards

2.4.1 Students who complete this program are also eligible to apply for entry to the Master of Viticulture program, and to be granted status for the work they have undertaken in the Graduate Diploma.

2.4.2 A candidate for the Graduate Diploma of Viticulture who does not complete the requirements for the Graduate Diploma but satisfies the requirements for the Graduate Certificate in Viticulture may

be admitted to the Graduate Certificate, subject to the student discontinuing candidature for the Graduate Diploma.

2.4.3 A candidate who has been admitted to the Graduate Certificate in Viticulture and who subsequently satisfies the requirements for the Graduate Diploma of Viticulture must surrender the Graduate Certificate before being admitted to the Graduate Diploma.

2.4.4 Students who have conferred upon them the award of Graduate Diploma in Viticulture who subsequently satisfy the requirements of the Master must surrender their Graduate Diploma before being admitted to the Master.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Graduate Diploma: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 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 purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

To qualify for the Graduate Diploma, a candidate shall satisfactorily complete courses to the value of 24 units, as follows:

### 4.1 Academic program

#### 4.1.1 Core Courses

All candidates shall complete the following core courses:

VITICULT 7002WT Viticultural Science.....	3
VITICULT 7021WT Viticultural Production .....	3
VITICULT 7038WT Viticultural Methods & Procedures.....	3

#### 4.1.2 Elective Courses

All candidates shall complete elective courses selected from the following:

AGRONOMY 7130WT Viticultural Engineering & Irrigation.....	3
OENOLOGY 7019WT Sensory Studies .....	3

OENOLOGY 7028WT Introductory Winemaking.....	3
PLANT SC 7004WT Mineral Nutrition of Plants.....	3
PLANT SC 7131WT 7006WT Integrated Pest Management A.....	3
SOIL&WAT 7003WT Topics in Soil and Land Systems.....	3
SOIL&WAT 7020WT Soil Water Management .....	3
VITICULT 7001WT Advances in Viticultural Science .....	3
Plus other electives chosen from postgraduate programs offered by the Faculty, subject to prior approval of the program coordinator.	

Note: a candidate who is a graduate of the University of Adelaide in the B.Agric.Sc.(Oenology) or B.Oenology will have the core courses VITICULT 7002WT Viticultural Science and VITICULT 7021WT Viticultural Production replaced by VITICULT 7001WT Advances in Viticultural Science and an elective course selected with the approval of the program coordinator.

#### 4.2 Unacceptable combinations of courses

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

#### 4.3 Graduation

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

### 5 Special circumstances

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

# Graduate Diploma in Wine Business

**Note:** This program involves courses that may be attended by both undergraduate and postgraduate students.

## 1 Duration of program

To qualify for the Graduate Diploma in Wine Business, a candidate shall satisfactorily complete a program of study comprising the equivalent of 2 semester of full-time study or no more than 8 semesters of part-time study.

## 2 Admission

2.1 An applicant for admission to the academic program for the Graduate Diploma in Wine Business shall have qualified for a Bachelor degree of the University of Adelaide in an appropriate field of study, or a degree of another institution accepted by the Faculty for the purpose as equivalent.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the Graduate Diploma a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of their fitness to undertake work for the Graduate Diploma.

### 2.3 Status, exemption and credit transfer

2.3.1 No candidate will be permitted to count for the Graduate Diploma any course that, in the opinion of the Faculty, contains substantially the same material as any other course that he or she has already presented for another award. Except with special permission of the Faculty, no candidate will be granted status for any course that he or she has presented for any award.

2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for equivalent postgraduate level studies.

2.3.3 In any case, no candidate will be awarded more than 6 units of status, except for those candidates who have completed the Graduate Certificate in Wine Business.

2.3.4 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially by the Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

### 2.4 Articulation with other awards

2.4.1 Students who complete this program are also eligible to apply for entry to the Master of Wine Business program, and to be granted status for the work they have undertaken in the Graduate Diploma.

2.4.2 A candidate for the Graduate Diploma of Wine Business who does not complete the

requirements for the Graduate Diploma but satisfies the requirements for the Graduate Certificate in Wine Business may be admitted to the Graduate Certificate, subject to the student discontinuing candidature for the Graduate Diploma.

2.4.3 A candidate who has been admitted to the Graduate Certificate in Wine Business and who subsequently satisfies the requirements for the Graduate Diploma of Wine Business must surrender the Graduate Certificate before being admitted to the Graduate Diploma.

2.4.4 Students who have conferred upon them the award of Graduate Diploma in Wine Business who subsequently satisfy the requirements of the Master must surrender their Graduate Diploma before being admitted to the Master.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the graduate diploma: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 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 purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

To qualify for the Graduate Diploma, a candidate shall satisfactorily complete courses to the value of 24 units, as follows:

### 4.1 Academic program

All candidates shall complete the following core courses:

WINEMKTG 7067WT/EX Winery Business Management A .....6

WINEMKTG 7049WT/EX Global Wine Market .....3

and at least one of:

OENOLOGY 7002NW/EX Vineyard and Winery Operations I.....3

OENOLOGY 7003NW/EX Vineyard and Winery Operations IIA .....3

*plus*

electives chosen from Rule 4.1 of the Master of Wine Business.

#### **4.2 Unacceptable combinations of courses**

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

#### **4.3 Graduation**

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

### **5 Special circumstances**

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

## 1 Duration of program

To qualify for the Master of Agricultural Business, a candidate shall satisfactorily complete the equivalent of a 48 unit program of study with a research project of 12 units comprising four semesters of full-time study or no more than 14 semesters of part-time study.

## 2 Admission

- 2.1 An applicant for admission to the program of study for the Master of Agricultural Business degree must have:
- qualified for an Honours degree from the University, at an appropriate standard in appropriate field of study, or a degree of another institution, at an appropriate standard in an appropriate field of study, accepted by the Faculty for the purpose as equivalent to an Honours degree of the University *or*
  - completed the Graduate Diploma in Agricultural Business at an average credit level or higher or qualified for a degree of the University in an appropriate field of study or a degree of another institution in an appropriate field of study accepted by the Program Management Committee for the purpose as equivalent to a degree of the University at an appropriate standard, and have relevant professional experience which is deemed by the Program Management Committee to be equivalent to at least 12 units of tertiary study *or*
  - completed the Graduate Diploma in Agricultural Business at an average credit level or higher, or qualified for a degree of the University in an appropriate field of study or a degree of another institution in an appropriate field of study accepted by the Program Management Committee for the purpose as equivalent to a degree of the University.
- 2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the degree a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of their fitness to undertake work for the degree.
- ### 2.3 Status, exemption and credit transfer
- 2.3.1 Except with special permission of the Faculty, no candidate will be granted status for any course which he or she has completed for another award.
- 2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for graduate level studies.

- 2.3.3 In any case, no candidate will be awarded more than 9 units of status.
- 2.3.4 Notwithstanding Rules 2.3.1, 2.3.2 and 2.3.3, candidates admitted under Rules 2.1 (a) or (b) may be granted further status as applicable.
- 2.3.5 A candidate who fails a course and is allowed to repeat that course shall, unless exempted partially there from by the Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

## 2.4 Articulation with other awards

- 2.4.1 A candidate for the Master of Agricultural Business who does not complete the requirements for the Masters but satisfies the requirements for the Graduate Diploma or the Graduate Certificate in Agricultural Business may be admitted to the one or other of those awards as appropriate.
- 2.4.2 A candidate who has been admitted to the Graduate Diploma in Agricultural Business and who subsequently satisfies the requirements for the Master of Agricultural Business must surrender the Graduate Diploma before being admitted to the Master degree.

## 3 Assessment and examinations

- 3.1 There shall be four classifications of pass in any course for the Masters degree: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.
- 3.2
- 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.
  - For the purpose of this Rule, a candidate who is refused permission to be assessed, by examination or otherwise, shall be deemed to have failed the course.
- 3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.
- 3.4 A candidate shall complete the coursework component of the degree with a credit average, before proceeding to the research component of the degree. A candidate who is not eligible to undertake the research component, but has satisfied the requirements for the Graduate Certificate or Graduate Diploma may be admitted to one or other of those awards as appropriate.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the degree of Master of Agricultural Business candidates shall (with the exception of Notes (i) - (iv) below) complete a program of study to a total of 48 units.

#### 4.1.1 Coursework

Core courses to the value of 9 units:

AGRIBUS 7009WT Issues in Australian Agribusiness .....	3
AGRIBUS 7012WT International Agribusiness Environment.....	3
AGRIBUS 7044WT Agricultural Business Management .....	3
Elective courses to the value of 27 units chosen from:	
AGRIBUS 7031WT Topics in Agricultural Business B.....	3
AGRIBUS 7041WT Topics in Agricultural Business A.....	3
AGRIBUS 7046WT Problems in Agricultural Business A.....	3
AGRIBUS 7047WT Problems in Agricultural Business B.....	3
COMMERCE 7005 Principles of Finance .....	3
COMMERCE 7036 Knowledge Management and Measurement .....	3
COMMERCE 7041 Business Communications.....	3
COMMGMGT 7006 Organisational Behaviour .....	3
COMMGMGT 7007 Strategic Management.....	3
COMMGMGT 7008 Management Practice .....	3
COMMGMGT 7011 Corporate Governance and Globalisation .....	3
COMMGMGT 7012 Managing Social Responsibility.....	3
MANAGEMENT 7000 Entrepreneurship .....	3
MANAGEMENT 7086 Fundamentals of Leadership ..	3
MARKETNG 7024 International Marketing.....	3
MARKETNG 7026 Market Research & Planning....	3
MARKETNG 7027 Brand Management.....	3
MARKETNG 7028 E-Marketing.....	3
MARKETNG 7032 Strategic Marketing .....	3
TRADE 5000 International Trade: Negotiations and Agreements .....	3
TRADE 5001 International Trade: Strategies and Opportunities.....	3
WINEMKTG 7003WT/EX Advertising & Promotion 3	
WINEMKTG 7005WT Wine & Food Tourism & Festivals .....	3

WINEMKTG 7006WT/EX Wine Retail and Distribution Management.....	3
WINEMKTG 7033WT Research Methodology & Methods .....	3
WINEMKTG 7039WT/EX Applied Marketing .....	3
WINEMKTG 7052WT Applied Management Science .....	3
WINEMKTG 7053EX Introduction to Managerial and Financial Accounting .....	3
WINEMKTG 7055WT/EX Wine and Food Marketing Principles .....	3
WINEMKTG 7058EX International Marketing of Wine and Agricultural Products .....	3
WINEMKTG 7060EX Consumer Behavioural Analysis.....	3
WINEMKTG 7062EX Microeconomic Principles ...	3
WINEMKTG 7063EX Macroeconomic Essentials for Wine & Food Business.....	3
WINEMKTG 7065WT/EX Database Marketing for Food & Wine Business .....	3
Candidates may include, within those courses presented to qualify for a coursework award, other graduate level courses, subject to the approval of the Program Adviser.	

#### 4.1.2 Research project

All candidates shall complete one of the following:  
AGRIBUS 7050WT Research Project in Agribusiness P/T .....

or  
AGRIBUS 7051WT Research Project in Agribusiness F/T .....

#### 4.2 Unacceptable combinations of courses

No candidate will be permitted to count for the degree any course that, in the opinion of the Faculty, contains substantially the same material as any other course that he or she has already presented for another award; and no course or portion of a course may be counted twice towards the degree.

#### 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.

**Notes:**

- i This program involves courses that may be attended by both undergraduate and postgraduate students
- ii Candidates who have completed the Graduate Diploma in Agricultural Business at an average Credit level, shall be permitted to transfer all equivalent courses towards the Masters degree and will be required to complete a further 12 units of electives plus the Research Project in Agribusiness
- iii Candidates who have completed the Graduate Diploma in Agricultural Business at an average credit level and have two or more years of relevant professional experience shall be granted 12 units of status and permitted to transfer all equivalent Graduate Diploma courses towards the Master degree, and will only be required to complete the 12 unit Research Project in Agribusiness.
- iv Candidates who have a degree of the University in an appropriate field of study or a degree of another institution in an appropriate field of study accepted by the Faculty for the purpose as equivalent to a degree of the University, and have two or more years of relevant professional experience, shall be granted 12 units of status and be required to complete 9 units of core courses plus 15 units of electives plus the 12 unit Research Project in Agribusiness.
- v Candidates who have completed an Honours degree from the University, or equivalent, in a relevant discipline, shall be granted 12 units of status and will be required to 9 units of core courses plus 15 units of electives plus the 12 unit Research Project in Agribusiness.



# Master of Biotechnology (Plant Biotechnology)

## 1 Duration of program

To qualify for the Master of Biotechnology (Plant Biotechnology), a candidate shall satisfactorily complete the equivalent of a 48 unit program of study comprising four semesters of full-time study or no more than 11 semesters of part-time study.

## 2 Admission

- 2.1 An applicant for admission to the program of study for the Master of Biotechnology (Plant Biotechnology) degree must have:
- qualified for an Honours degree from the University, at an appropriate standard in an appropriate field of study, or a degree of another institution, at an appropriate standard in an appropriate field of study, accepted by the Faculty for the purpose as equivalent to an Honours degree of the University *or*
  - completed the Graduate Diploma in Biotechnology (Plant Biotechnology) at an average credit level or higher or qualified for a degree of the University in an appropriate field of study or a degree of another institution in an appropriate field of study accepted by the Faculty for the purpose as equivalent to a degree of the University, and have relevant professional experience which is deemed by the Program Management Committee to be equivalent to at least 12 units of tertiary study *or*
  - completed the Graduate Diploma in Biotechnology (Plant Biotechnology) at an average credit level or higher, or qualified for a degree of the University in an appropriate field of study or a degree of another institution in an appropriate field of study accepted by the Program Management Committee for the purpose as equivalent to a degree of the University.
- 2.2 The Program Management Committee may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the degree a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Committee of their fitness to undertake work for the degree.
- ### 2.3 Status, exemption and credit transfer
- 2.3.1 Except with special permission of the Program Management Committee, no candidate will be granted status for any course, which he or she has completed for another award.
- 2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for graduate level studies.

- 2.3.3 In any case, no candidate will be awarded more than 9 units of status.
- 2.3.4 Notwithstanding Rules 2.3.1, 2.3.2 and 2.3.3, candidates admitted under Rules 2.1 (a) or (b) may be granted further status as applicable.
- 2.3.5 A candidate who fails a course and is allowed to repeat that course shall, unless exempted partially by the Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

## 2.4 Articulation with other awards

- 2.4.1 A candidate for the Master of Biotechnology (Plant Biotechnology) who does not complete the requirements for the Masters but satisfies the requirements for the Graduate Diploma in Biotechnology (Plant Biotechnology), or the Graduate Certificate in Biotechnology (Plant Biotechnology) may be admitted to the one or other of those awards as appropriate.
- 2.4.2 A candidate who has been admitted to the Graduate Diploma in Biotechnology (Plant Biotechnology) and who subsequently satisfies the requirements for the Master of Biotechnology (Plant Biotechnology) must surrender the Graduate Diploma before being admitted to the Master degree.

## 3 Assessment and examinations

- 3.1 There shall be four classifications of pass in any course for the Masters degree: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.
- 3.2
- 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.
  - For the purpose of this Rule, a candidate who is refused permission to be assessed, by examination or otherwise, shall be deemed to have failed the course.
- 3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.
- 3.4 A candidate shall complete the coursework component of the degree with a credit average, before proceeding to the research component of the degree. A candidate who is not eligible to undertake the research component, but has satisfied the requirements for the Graduate Certificate or Graduate Diploma may be admitted to one or other of those awards as appropriate.



## 4 Qualification requirements

### 4.1 Academic program

To qualify for the degree of Master of Biotechnology (Plant Biotechnology) candidates shall, with the exception of Notes (i) - (iv) below, complete a program of study to a total of 48 units.

#### 4.1.1 Coursework

The following courses must be completed:

PLANT SC 7225WT Foundations of Plant Biotechnology .....	6
PLANT SC 7226WT Molecular Plant Breeding .....	3
PLANT SC 7227WT Plant Genomics .....	3
PLANT SC 7123WT Applications of Plant Biotechnology in Production .....	3
PLANT SC 7124WT Applications of Plant Biotechnology in Health and Nutrition .....	3
PLANT SC 7125WT Management, Commercialisation and Regulation in Plant Biotechnology .....	3
PLANT SC 7126WT Techniques in Plant Biotechnology .....	3

#### 4.1.2 Research Project

All candidates shall complete one of the following courses

PLANT SC 7229WT Extended Research Project (Plant Biotechnology) F/T..... 24

or

PLANT SC 7231WT Extended Research Project (Plant Biotechnology) P/T ..... 24 |

Or for those admitted under Rule 2.1 (a) or (b)

PLANT SC 7228WT Research Project (Plant Biotechnology) F/T..... 12

or

PLANT SC 7230WT Research Project (Plant Biotechnology) P/T ..... 12 |

4.2 To be eligible to have the degree conferred, candidates are required to provide three bound copies of the research project to the School, after the research project has been passed and accepted for the degree.

### 4.3 Unacceptable combinations of courses

No candidate will be permitted to count for the degree any course that, in the opinion of the Faculty, contain substantially the same material as any other course that he or she has already presented for another award; and no course or portion of a course may be counted twice towards the degree.

### 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.

#### Notes:

- i This program involves courses that may be attended by both undergraduate and postgraduate students.
- ii Candidates who have completed the Graduate Diploma in Biotechnology (Plant Biotechnology) at an average Credit level, shall be permitted to transfer all equivalent courses towards the Masters degree and will only be required to complete the Extended Project in Plant Biotechnology.
- iii Candidates who have completed the Graduate Diploma in Biotechnology (Plant Biotechnology) at an average credit level and have two or more years of relevant professional experience shall be granted 12 units of status and permitted to transfer all equivalent Graduate Diploma courses towards the Master degree, and will only be required to complete the 12 unit Project in Plant Biotechnology.
- iv Candidates who have a degree of the University in an appropriate field of study or a degree of another institution in an appropriate field of study accepted by the Faculty for the purpose as equivalent to a degree of the University, and have two or more years of relevant professional experience, shall be granted 12 units of status and be required to complete 24 units of coursework and the 12 unit Project in Plant Biotechnology.
- v Candidates who have completed an Honours degree from the University, or equivalent, in a relevant discipline, shall be granted 12 units of status and will be required to complete 24 units of coursework and the 12 unit Project in Plant Biotechnology.



# Master of Oenology

**Note: This program involves courses that may be attended by both undergraduate and postgraduate students.**

## 1 Duration of program

To qualify for the Master of Oenology, a candidate shall satisfactorily complete a program the equivalent of study comprising three semester of full-time study or no more than ten semesters of part-time study.

## 2 Admission

2.1 An applicant for admission to the academic program for the degree of Master of Oenology shall have qualified for a Bachelor degree of the University of Adelaide in an appropriate field of study, or a degree of another institution accepted by the Faculty for the purpose as equivalent, plus have at least two years approved relevant work experience. Applicants are expected to have a science or engineering first degree but if this is not the case then applicants must have, as a minimum, the equivalent of first year university chemistry. At the University of Adelaide this chemistry requirement is equivalent to 25% full time student load at first year.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the degree a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of their fitness to undertake work for the degree.

### 2.3 Status, exemption and credit transfer

2.3.1 No candidate will be permitted to count for the degree any course that, in the opinion of the Faculty, contains substantially the same material as any other course that he or she has already presented for another award. Except with special permission of the Faculty, no candidate will be granted status for any course that he or she has presented for any award.

2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for equivalent postgraduate level studies.

2.3.3 In any case, no candidate will be awarded more than 9 units of status, except for those candidates who have completed the Graduate Certificate in Oenology or the Graduate Diploma in Oenology.

2.3.4 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially by the Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

## 2.4 Articulation with other awards

2.4.1 A candidate for the Master of Oenology who does not complete the requirements for the Masters degree but satisfies the requirements for the Graduate Certificate in Oenology or Graduate Diploma in Oenology may be admitted to one of those awards, as appropriate, subject to the student discontinuing candidature for the higher award.

2.4.2 A candidate who has been admitted to the Graduate Certificate in Oenology or Graduate Diploma in Oenology and who subsequently satisfies the requirements for the Master of Oenology must surrender the Graduate Certificate or Graduate Diploma before being admitted to the Masters degree.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Masters degree: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 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 purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

To qualify for the degree, a candidate shall satisfactorily complete core and elective courses to the value of 36 units, as follows:

### 4.1 Academic program

#### 4.1.1 Core Courses

All candidates shall complete the following core courses:

OENOLOGY 7010WT Stabilisation and Clarification .....	3
OENOLOGY 7019WT Sensory Studies .....	3
OENOLOGY 7022WT Cellar and Winery Waste Management .....	3
OENOLOGY 7028WT Introductory Winemaking ..	3
OENOLOGY 7046WT Fermentation Technology...	3

OENOLOGY 7047WT Winemaking at Vintage .....	3
OENOLOGY 7048WT Advances in Oenology .....	3

#### 4.1.2 Elective Courses

All candidates shall complete elective courses selected from the following:

AGRONOMY 7130WT Viticultural Engineering and Irrigation.....	3
CHEM ENG 7010WT Winery Engineering .....	3
FREN 5013WT Technical French (Oenology) .....	3
HORTICUL 7052WT Olive Production and Marketing.....	3
OENOLOGY 7004WT Wine Packaging and Quality Management.....	3
OENOLOGY 7038WT Distillation, Fortified and Sparkling Wine Making .....	3
VITICULT 7002WT Viticultural Science.....	3
VITICULT 7008WT Grape Industry Practice, Policy and Communication.....	2
VITICULT 7021WT Viticultural Production .....	3
VITICULT 7024WT Table and Drying Grape Production.....	2
VITICULT 7038WT Viticultural Methods & Procedures.....	3
WINEMKTG 7055WT Wine and Food Marketing Principles.....	3

plus other electives from postgraduate programs offered by the Faculty, with prior approval of the program coordinator.

#### 4.1.3 Optional supervised research project

Subject to the approval of the program coordinator, a 12 unit supervised research project can be completed in lieu of elective courses listed above subject to the availability of a nominated supervisor:

AGRIC 7014WT Project F .....	12
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#### 4.2 Unacceptable combinations of courses

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

#### 4.3 Graduation

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

### 5 Special circumstances

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



# Master of Pig Science and Management

## 1 Duration of program

To qualify for the Master of Pig Science and Management, a candidate shall satisfactorily complete a 36 unit program of study equivalent to three semesters of full-time study.

This program is only offered on a part time basis.

## 2 Admission

2.1 An applicant for admission to the program of study for the Master of Pig Science and Management degree must have:

a qualified for an Honours degree from the University, at an appropriate standard in appropriate field of study, or a degree of another institution, at an appropriate standard in an appropriate field of study, accepted by the Faculty for the purpose as equivalent to an Honours degree of the University

or

b completed the Graduate Diploma in Pig Science and Management at an average credit level or higher or qualified for a degree of the University in an appropriate field of study or a degree of another institution in an appropriate field of study accepted by the Program Management Committee for the purpose as equivalent to a degree of the University at an appropriate standard, and have relevant professional experience which is deemed by the Program Management Committee to be equivalent to at least 12 units of tertiary study

or

c completed the Graduate Diploma in Pig Science and Management at an average credit level or higher, or qualified for a degree of the University in an appropriate field of study or a degree of another institution in an appropriate field of study accepted by the Program Management Committee for the purpose as equivalent to a degree of the University .

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the degree a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of their fitness to undertake work for the degree.

### 2.3 Status, exemption and credit transfer

2.3.1 Except with special permission of the Faculty, no candidate will be granted status for any course which he or she has completed for another award.

2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for graduate level studies.

2.3.3 In any case, no candidate will be awarded more than 9 units of status.

2.3.4 Notwithstanding Rules 2.3.1, 2.3.2 and 2.3.3, candidates admitted under Rules 2.1 (a) or (b) may be granted further status as applicable.

2.3.5 A candidate who fails a course and is allowed to repeat that course shall, unless exempted partially there from by the Executive Dean of Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

### 2.4 Articulation with other awards

2.4.1 A candidate for the Master of Pig Science and Management who does not complete the requirements for the Masters but satisfies the requirements for the Graduate Diploma or the Graduate Certificate in Pig Science and Management may be admitted to the one or other of those awards as appropriate.

2.4.2 A candidate who has been admitted to the Graduate Diploma in Pig Science and Management and who subsequently satisfies the requirements for the Master of Pig Science and Management must surrender the Graduate Diploma before being admitted to the Master degree.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Masters degree: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 a 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.

b For the purpose of this Rule, a candidate who is refused permission to be assessed, by examination or otherwise, shall be deemed to have failed the course.

3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

3.4 A candidate shall complete the coursework component of the degree with a credit average, before proceeding to the research component of the degree. A candidate who is not eligible to undertake the research component, but has satisfied the requirements for the Graduate Certificate or Graduate Diploma may be admitted to one or other of those awards as appropriate.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the degree of Master of Pig Science and Management candidates shall complete a program of study to a total of 36 units.

#### 4.1.1 Coursework

The following courses must be completed:

ANIML SC 7025RW Pig Production - Science into Practice.....	3
ANIML SC 7026RW Biotechnology in the Pork Industry.....	3
ANIML SC 7027RW Business Management for the Pork Industry.....	3
ANIML SC 7028RW Advanced Pig Nutrition.....	3
ANIML SC 7029RW Pig Health .....	3
ANIML SC 7030RW Science & Marketing of Pig Meat .....	3
ANIML SC 7031RW Industry Placement (Pig Science & Management) .....	6

#### 4.1.2 Research Project

All candidates shall complete the following course:

ANIML SC 7032RW Research Project (Pig Science & Management) .....	12
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### 4.2 Unacceptable combinations of courses

No candidate will be permitted to count for the degree any course that, in the opinion of the Faculty, contains substantially the same material as any other course that he or she has already presented for another award; and no course or portion of a course may be counted twice towards the degree.

### 4.3 Graduation

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

## 5 Special circumstances

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

## **Graduate Attributes**

### Master of Pig Science and Management

- Deep understanding of pig form and function at the molecular and physiological level
- The ability to design and implement research and development programs in pig science by finding, compiling, analysing, evaluating and synthesising information from a wide variety of sources in an organised and efficient manner
- The ability to apply effective, creative and innovative solutions to current and future problems in pig science and management
- Skills in the use of collaborative (team-based) approaches to the design and implementation of problems
- Skills in the written and oral presentation of ideas and information relevant to such projects, particularly in report preparation and community education materials
- A commitment to continuous learning about the society-environment relationship, and the capacity to maintain intellectual curiosity about social and environmental issues in agriculture throughout life
- A commitment to the highest standards of professional ethics and endeavour, and the ability to take a leadership role in the community as a technologically aware and concerned citizen.

## 1 Duration of program

To qualify for the Master of Plant Health & Biosecurity, a candidate shall satisfactorily complete the equivalent of a 48 unit program of study comprising four semesters of full-time study or no more than 11 semesters of part-time study.

## 2 Admission

- 2.1 An applicant for admission to the program of study for the Master of Plant Health & Biosecurity degree must have:
- qualified for an Honours degree from the University, at an appropriate standard in appropriate field of study, or a degree of another institution, at an appropriate standard in appropriate field of study, accepted by the Program Management Committee for the purpose as equivalent to an Honours degree of the University *or*
  - completed the Graduate Diploma in Plant Health & Biosecurity at an average Credit level or higher or qualified for an Ordinary degree of the University in an appropriate field of study or a degree of another institution in an appropriate field of study accepted by the Faculty for the purpose as equivalent to a degree of the University and have relevant professional experience which is deemed by the Program Management Committee to be equivalent to at least 12 units of tertiary study. *or*
  - completed the Graduate Diploma in Plant Health & Biosecurity at an average credit level or higher, or qualified for a degree of the University in an appropriate field of study or a degree of another institution in an appropriate field of study accepted by the Program Management Committee for the purpose as equivalent to a degree of the University.
- 2.2 The Program Management Committee may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the degree a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Committee of their fitness to undertake work for the degree.
- ### 2.3 Status, exemption and credit transfer
- 2.3.1 Except with special permission of the Program Management Committee, no candidate will be granted status for any course, which he or she has completed for another award.
- 2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for graduate level studies.

- 2.3.3 In any case, no candidate will be awarded more than 9 units of status.
- 2.3.4 Notwithstanding Rules 2.3.1, 2.3.2 and 2.3.3, Candidates admitted under Rules 2.1 (a) or (b) may be granted further status as applicable.
- 2.3.5 A candidate who fails a course and is allowed to repeat that course shall, unless exempted partially there from by the Head of School, again complete the required work in the course to the satisfaction of the teaching staff concerned.

## 2.4 Articulation with other awards

- 2.4.1 A candidate for the Master of Plant Health & Biosecurity who does not complete the requirements for the Masters but satisfies the requirements for the Graduate Diploma in Plant Health & Biosecurity, or the Graduate Certificate in Plant Health & Biosecurity may be admitted to the one or other of those awards as appropriate.
- 2.4.2 A candidate who has been admitted to the Graduate Diploma in Plant Health & Biosecurity and who subsequently satisfies the requirements for the Master of Plant Health & Biosecurity must surrender the Graduate Diploma before being admitted to the Master degree.

## 3 Assessment and examinations

- 3.1 There shall be four classifications of pass in any course for the Masters degree: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.
- 3.2
- 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.
  - For the purpose of this Rule, a candidate who is refused permission to be assessed, by examination or otherwise, shall be deemed to have failed the course.
- 3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.
- 3.4 A candidate shall complete the coursework component of the degree with a credit average, before proceeding to the research component of the degree. A candidate who is not eligible to undertake the research component, but has satisfied the requirements for the Graduate Certificate or Graduate Diploma may be admitted to one or other of those awards as appropriate.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the degree of Master of Plant Health & Biosecurity candidates shall, with the exception of notes (i) - (iv) below, complete a program of study to a total of 48 units as follows.

#### 4.1.1 Core Courses

All candidates shall complete the following core courses:

PLANT SC 7020WT Strategies & Practices for Pest Management & Eradication .....	3
PLANT SC 7120WT Molecular and Biochemical Diagnostic Methods in Plant Health .....	3
PLANT SC 7121WT Biosecurity and Incursion Management .....	3
PLANT SC 7122WT Management and Regulation of Plant Health .....	3
PLANT SC 7220WT Foundations of Plant Health .....	6
PLANT SC 7221WT Classical Diagnostic Methods in Plant Health .....	3
PLANT SC 7222WT Advanced Principles Pest Management & Biosecurity .....	3

#### 4.1.2 Research Project

All candidates shall complete one of the following research courses:

PLANT SC 7223AWT/BWT Extended Research Project in Plant Health & Biosecurity F/T [or part-time equivalent].....	24
<i>or</i> (for those admitted under Rule 2.1 (a) or (b))	
PLANT SC 7224AWT/BWT Research Project (Plant Health & Biosecurity) F/T [or part-time equivalent].....	12

4.2 To be eligible to have the degree conferred, candidates are required to provide three bound copies of the research project to the School, after the research project has been passed and accepted for the degree.

### 4.3 Unacceptable combinations of courses

No candidate will be permitted to count for the degree any course that, in the opinion of the Faculty, contains substantially the same material as any other course that he or she has already presented for another award; and no course or portion of a course may be counted twice towards the degree.

### 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.

### Notes:

- i This program involves courses that may be attended by both undergraduate and postgraduate students.
- ii Candidates who have completed the Graduate Diploma in Plant Health & Biosecurity at an average Credit level, shall be permitted to transfer all equivalent courses towards the Masters degree and will only be required to complete the Extended Research Project (Plant Health & Biosecurity).
- iii Candidates who have completed the Graduate Diploma in Plant Health & Biosecurity at an average credit level and have two or more years of relevant professional experience shall be granted 12 units of status and permitted to transfer all equivalent Graduate Diploma courses towards the Master degree, and will only be required to complete the 12 unit Research Project (Plant Health & Biosecurity).
- iv Candidates who have a degree of the University in an appropriate field of study or a degree of another institution in an appropriate field of study accepted by the Faculty for the purpose as equivalent to a degree of the University, and have two or more years of relevant professional experience, shall be granted 12 units of status and be required to complete 24 units of coursework and the 12 unit Research Project (Plant Health & Biosecurity).
- v Candidates who have completed an Honours degree from the University, or equivalent, in a relevant discipline, shall be granted 12 units of status and will be required to complete 24 units of coursework and the 12 unit Research Project (Plant Health & Biosecurity).



## **Graduate Attributes**

### Master of Plant Health and Biosecurity

Graduates of the Master of Plant Health and Biosecurity will have the following attributes:

- Deep understanding of internationally recognised best practice, law and policy in the management of organisms that are damaging to plants using appropriate technologies
- The ability to design and implement research and development programs in plant health management and biosecurity by finding, compiling, analysing, evaluating and synthesising information from a wide variety of sources in an organised and efficient manner
- The ability to apply effective, creative and innovative solutions to current and future problems in plant health management and biosecurity
- Skills in the use of collaborative (team-based) approaches to the design and implementation of problems in plant health management
- Skills in the written and oral presentation of ideas and information relevant to such projects, particularly in report preparation and community education materials
- A commitment to continuous learning about the society-environment relationship, and the capacity to maintain intellectual curiosity about social and environmental issues in plant health throughout life
- A commitment to the highest standards of professional ethics and endeavour, and the ability to take a leadership role in the community as a technologically aware and concerned citizen
- An awareness of the economic and cultural issues that impact on the quality of life, and the social context for the application new technologies in plant health management and biosecurity.



## Master of Science (Applied Physics)

## Master of Science (Astrophysics)

## Master of Science (Atmospheric Physics)

## Master of Science (Optics and Lasers)

## Master of Science (Theoretical Physics)

### 1 Duration of Program

Except with the permission of the Faculty of Sciences, the courses of study and research report shall normally be completed in three semesters of full-time study or the equivalent of part-time study.

### 2 Admission

- 2.1
- a The Faculty may accept as a candidate for the degree any person who has qualified for an Honours degree of Bachelor of Science in Physics of the University of Adelaide or of another institution accepted for the purpose by the University *or*
  - b The Faculty may accept as a candidate a person who has qualified for a degree of Bachelor of Science of the University of Adelaide, or another institution accepted by the University for the purpose, with a major sequence in Physics and appropriate professional experience *or*
  - c Subject to the approval of Council the Faculty may, in special cases and subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the degree a person who does not hold the qualifications specified in 2.1(a) above but who has given evidence satisfactory to the Faculty of their fitness to undertake work for the degree.

### 3 Enrolment

A candidate's enrolment in courses of study and choice of supervisor or supervisors must be approved by the Head of Physics, or the Program Coordinator, at enrolment each year.

### 4 Assessment and examination

- 4.1 There shall be four classifications of pass in any course for the degree: Pass with High Distinction, Pass with Distinction, Pass with Credit, Pass.
- 4.2
- a A candidate who fails in 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, unless specifically exempted after written application for such exemption

- b A candidate who has twice failed the examination in any course or division of a course may not enrol for that course again except by special permission to be obtained in writing and then only under such conditions as may be prescribed.
- c For the purpose of this Rule, a candidate who is refused permission to sit for examination, or who fails, without a reason accepted by the Head of Physics, to attend all or part of a final examination (or supplementary examination if granted) after remaining enrolled for at least nine teaching weeks of that semester, shall be deemed to have failed the examination.

### 5 Qualification requirements

- 5.1 To qualify for the degree a candidate shall:
- a satisfy examiners in courses of study as prescribed in the Academic Program Rules *and*
  - b present a satisfactory research report on a subject approved by the Head of Physics.
- 5.2 On the completion of the research report the candidate shall lodge with the Head of Physics two copies of the research report prepared in accordance with directions given to candidates from time to time. No research report or material presented for any other degree within this or any other institution shall be submitted.

#### 5.3 Academic program

Unless exempted by the Faculty every candidate for the degree shall satisfactorily complete units to the value of at least 36 units from the following components:

- a coursework comprising options with an aggregate value of at least 18 units, including at least nine units from the courses listed in (iii). These courses may be chosen from:
  - i The following courses to the value of no more than 9 units:
    - PHYSICS 7026 Computational Physics.....2
    - PHYSICS 7027 Electromagnetism and Optics .....3
    - PHYSICS 7028 Experimental Physics .....3

PHYSICS 7030 Quantum Mechanics A.....	3
PHYSICS 7032 Advanced Dynamics & Relativity .....	3
PHYSICS 7035 Statistical Mechanics .....	2
PHYSICS 7040 Astrophysics .....	2
PHYSICS 7041 Atmospheric & Environmental Physics .....	2
PHYSICS 7042 Electromagnetism .....	2
PHYSICS 7043 Photonics .....	2
PHYSICS 7044 Physical Optics .....	2
PHYSICS 7207 Quantum Mechanics B.....	2
PHYSICS 7209 Photonics P.....	3
ii Courses listed under Academic Program Rules for other Coursework Masters degrees offered by the Faculty of Sciences or the Faculty of Engineering, Computer and Mathematical Sciences, subject to approval by the Program Coordinator <i>and</i>	
iii the following courses to the value of no less than 9 units:	
PHYSICS 7002 Advanced Astrophysics.....	3
PHYSICS 7003 Advanced Atmospheric and Environmental Physics .....	3
PHYSICS 7004 Advanced Electromagnetism .....	3
PHYSICS 7007 Experimental Methods .....	3
PHYSICS 7008 Gauge Theory .....	3
PHYSICS 7009 General Relativity.....	3
PHYSICS 7010 Laser Physics & Non-linear Optics .....	3
PHYSICS 7011 Nuclear & Radiation Physics .....	3
PHYSICS 7012 Nuclear Theory & Particle Physics*.....	3
PHYSICS 7013 Quantum Field Theory.....	3
PHYSICS 7014 Relativistic Quantum Mechanics and Particle Physics.....	3
PHYSICS 7015 Statistical Mechanics and Many Body Theory* .....	3
PHYSICS 7104 Electronic Data Acquisition ..	3
b An advanced topic in Applied Physics, Astrophysics, Atmospheric Physics, Optics and Lasers, Photonics or Theoretical Physics with a value of 6 units:	
PHYSICS 7017 Advanced Topic in Physics .....	6
c An approved research project with a value of 12 units:	
PHYSICS 7016 Research Project (M.Sc.Physics) .....	12

The courses to be offered in any year will be dependent on staff availability and student demand.

\* not offered in 2009.

## 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.



# Master of Science (Medical Physics)

## 1 General

- 1.1 This document must be read in conjunction with:
- a the General Academic Program Rules for Master by Research Programs (see under Adelaide Graduate Centre, p.18) *and*
  - b the Research Student Handbook, published by the Adelaide Graduate Centre.

These documents explain procedures to be followed and contain guidelines on supervision and research for the degree of Doctor of Philosophy and the various Masters Degrees by Research, offered by the University.

All students must comply with both the General Academic Rules and the rules following below, and procedures outlined in the Research Student Handbook.

In addition to the General Academic Program Rules for Masters by Research degrees, in this publication, the following discipline specific rules apply.

## 2 Qualification requirements

- 2.1 As part of the Structured Program each candidate for the degree shall complete the following components of coursework:
- Anatomy and Physiology (Medical Physics)
  - Physics of Imaging
  - Radiation Biology, Protection and Epidemiology
  - Radiotherapy Physics.
- 2.2 Each candidate shall complete a thesis on an approved research project with clinical or field application, undertaken at an approved research institution.



# Master of Science (Reservoir Geoscience)

**Note: There will be no further intake into this program.**

## 1 General

This document must be read in conjunction with:

- a the General Academic Program Rules for Master by Research Programs (see under Adelaide Graduate Centre, p.18) *and*
- b the Research Student Handbook, published by the Adelaide Graduate Centre.

These documents explain procedures to be followed and contain guidelines on supervision and research for the degree of Doctor of Philosophy and the various Masters Degrees by Research, offered by the University.

All students must comply with both the General Academic Rules and the rules following below, and procedures outlined in the Research Student Handbook.

In addition to the General Academic Program Rules for Masters by Research degrees, in this publication, the following discipline specific rules apply.

## 2 Qualification requirements

- 2.1 Every candidate for the degree shall complete work to the value of 48 units comprising the following components:
  - a coursework comprising the following compulsory courses:
    - PETROL 7000 Petroleum Geology and Geophysics (B)..... 6
    - PETROL 7001 Petroleum Geology and Geophysics (A)..... 6
  - b 3 or 4 units of approved coursework chosen from PETROENG 7001 to 7049 as listed in the Calendar.
  - c a thesis on an approved research project with relevance to reservoir geoscience.
- 2.2 The Research Education and Development Committee may exempt candidates from the specified coursework if they have qualified for the Honours Degree of Bachelor of Science (Petroleum Geology and Geophysics) of the University, or an alternative Honours program containing equivalent coursework.



# Master of Sustainability

**Note: This program involves courses that may be attended by both undergraduate and postgraduate students.**

## 1 Duration of program

To qualify for the Master of Sustainability a candidate shall satisfactorily complete a program of study comprising 3 semester of full-time study or no more than 10 semesters of part-time study.

## 2 Admission

2.1 An applicant for admission to the academic program for the degree of Master of Sustainability shall have qualified for a Bachelor degree of the University of Adelaide in an appropriate field of study, or a degree of another institution accepted by the Faculty for the purpose as equivalent.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the degree a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the degree.

## 2.3 Status, exemption and credit transfer

2.3.1 No candidate will be permitted to count for the degree any course that, in the opinion of the Faculty, contains substantially the same material as any other course that he or she has already presented for another award. Except with special permission of the Faculty, no candidate will be granted status for any course that he or she has presented for any award.

2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for equivalent post-graduate level studies.

2.3.3 In any case, no candidate will be awarded more than 9 units of status, except for those candidates who have completed the Graduate Certificate in Sustainability or the Graduate Diploma in Sustainability.

2.3.4 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially by the Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

## 2.4 Articulation with other awards

2.4.1 A candidate for the Master of Sustainability who does not complete the requirements for the Masters degree but satisfies the requirements for the Graduate Certificate in Sustainability or Graduate Diploma in Sustainability may be admitted to one of those awards, as appropriate, subject to the student discontinuing candidature for the higher award.

2.4.2 A candidate who has been admitted to the Graduate Certificate in Sustainability or Graduate Diploma in Sustainability and who subsequently satisfies the requirements for the Master of Sustainability must surrender the Graduate Certificate or Graduate Diploma before being admitted to the Masters degree.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Masters degree: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 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 purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

To qualify for the degree of Master of Sustainability, a candidate shall satisfactorily complete core courses and elective courses or research project to the value of 36 units, as follows:

### 4.1 Academic program

Note: Candidates should note that courses offered in the Master of Sustainability are subject, at all times, to availability.

#### 4.1.1 Core Courses

All candidates shall complete the following core course:

ECON 7210 Climate Change: Mitigation & Adaptation ..... 3  
*plus*

21 units from at least 4 of the following 5 thematic areas of study

*plus*  
Research Project\* ..... 12  
*or optionally*

Additional 12 units from courses in the thematic areas or additional electives below

\*The Research project would normally be taken after completion of 24 points of coursework

<b>Economics</b>	
Energy Management Economics and Policy .....	3
ECON 7200 Economic Principles .....	3
GEST 5004 Environment Economics and Policy...	6
<b>Governance</b>	
C&ENVENG 7044 Introduction to Environmental Law .....	3
COMMGMT 7011 Corporate Governance and Globalisation .....	3
GEST 5002 Environmental Planning & Governance.....	6
LAW 7068 International Energy Law .....	3
<b>Science &amp; the Environment</b>	
ENV BIOL 7016 Climate Change: Past, Present and Future.....	3
ENV BIOL 7017 Issues in Sustainable Environs ...	3
TECHCOMM 7025 Introduction to Climate Change.....	3
WRM 7026WT Integrated Catchment Management .....	3
<b>Social and Corporate Responsibility</b>	
CHEMENG 7032 Principles of Sustainability and Decision Making .....	3
COMMGMT 7012 Managing Social Responsibility.....	3
GEST 5005 Community Engagement .....	6
MANAGEMENT 7230 Understanding Organisational Sustainability.....	3
TECHCOMM 7023 Carbon Impact and Strategy ..	3
TECHCOMM 7024 Complex Project Management .....	3
TECHCOMM 7033 Ongoing Carbon Management 1 .....	3
<b>Technology &amp; Innovation</b>	
<i>Chemical Engineering courses:</i>	
Biofuels.....	3
Frontier Technologies .....	3
<i>Electrical &amp; Electronic Engineering course:</i>	
Distributed Generation Technologies .....	3
<i>Mechanical Engineering course:</i>	
Wind Turbine Design .....	3
MECHENG 7021 Combustion Technology and Emissions Control .....	3
MECHENG 7050 Sustainability & the Environment.....	3
TECHCOMM 7019 Social Entrepreneurship .....	3

#### 4.1.2 Elective Courses

*Architecture course:*

Architectural Issues and Sustainable Energy .....	3
PLANNING 7026 State of the City.....	3
PUBHLTH 7074 Introduction to Biostatistics.....	3
PUBHLTH 7075 Introduction to Epidemiology.....	3
PUBHLTH 7107HO Epidemiology of Infectious Diseases .....	3
PUBHLTH 7113HO Environmental and Occupational Health .....	3

Additionally candidates can select other electives courses chosen from programs offered by the University, subject to prior approval of the Program Coordinator.

#### 4.2 Unacceptable combinations of courses

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

#### 4.3 Graduation

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

### 5 Special circumstances

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



# Master of Sustainability (Advanced)

**Note: This program involves courses that may be attended by both undergraduate and postgraduate students.**

## 1 Duration of program

To qualify for the Master of Sustainability (Advanced), a candidate shall satisfactorily complete a program of study comprising 4 semesters of full-time study or no more than 10 semesters of part-time study.

## 2 Admission

2.1 An applicant for admission to the academic program for the degree of Master of Sustainability (Advanced), shall have qualified for a Bachelor degree of the University of Adelaide in an appropriate field of study, or a degree of another institution accepted by the Faculty for the purpose as equivalent.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the degree a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the degree.

## 2.3 Status, exemption and credit transfer

2.3.1 No candidate will be permitted to count for the degree any course that, in the opinion of the Faculty, contains substantially the same material as any other course that he or she has already presented for another award. Except with special permission of the Faculty, no candidate will be granted status for any course that he or she has presented for any award.

2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for equivalent post-graduate level studies.

2.3.3 In any case, no candidate will be awarded more than 9 units of status, except for those candidates who have completed the Graduate Certificate in Sustainability, Graduate Diploma in Sustainability or the Master of Sustainability.

2.3.4 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially there from by the Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

## 2.4 Articulation with other awards

2.4.1 A candidate for the Master of Sustainability (Advanced) who does not complete the requirements for the Masters degree but satisfies the requirements for the Graduate Certificate in Sustainability or Graduate Diploma in Sustainability or Master of Sustainability may be admitted to one of those awards, as appropriate, subject to the student discontinuing candidature for the higher award.

2.4.2 A candidate who has been admitted to the Graduate Certificate in Sustainability or Graduate Diploma in Sustainability or Master of Sustainability and who subsequently satisfies the requirements for the Master of Sustainability (Advanced) must surrender the Graduate Certificate or Graduate Diploma or Masters degree before being admitted to the Masters degree (Advanced).

## 3 Assessment and examinations

3.2 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 purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

To qualify for the degree of Master of Sustainability (Advanced), a candidate shall satisfactorily complete core courses, elective courses and a research project to the value of 48 units, as follows:

### 4.1 Academic program

Note: Candidates should note that courses offered in the Master of Sustainability (Advanced) are subject, at all times, to availability.

4.1 Academic program

4.1.1 Core Courses

All candidates shall complete the following core course:

ECON 7210 Climate Change: Mitigation & Adaptation ..... 3

*plus*

21 units from at least 4 of the following 5 thematic areas of study

*plus*

Research Project\* ..... 12

*plus*

An additional 12 units from courses in the thematic areas or additional electives (see below)

\* The Research project would normally be taken after completion of 24 points of coursework



<b>Economics</b>	
Energy Management Economics and Policy .....	3
ECON 7200 Economic Principles .....	3
GEST 5004 Environment Economics and Policy...	6
<b>Governance</b>	
C&ENVENG 7044 Introduction to Environmental Law .....	3
COMMGMT 7011 Corporate Governance and Globalisation .....	3
GEST 5002 Environmental Planning and Governance.....	6
LAW 7068 International Energy Law .....	3
<b>Science &amp; the Environment</b>	
ENV BIOL 7016 Climate Change: Past, Present and Future.....	3
ENV BIOL 7017 Issues in Sustainable Environs ...	3
TECHCOMM 7025 Introduction to Climate Change.....	3
WRM 7026WT Integrated Catchment Management .....	3
<b>Social and Corporate Responsibility</b>	
CHEMENG 7032 Principles of Sustainability and Decision Making.....	3
COMMGMT 7012 Managing Social Responsibility.....	3
GEST 5005 Community Engagement .....	6
MANAGEMENT 7230 Understanding Organisational Sustainability.....	3
TECHCOMM 7023 Carbon Impact and Strategy ..	3
TECHCOMM 7024 Complex Project Management .....	3
TECHCOMM 7033 Ongoing Carbon Management 1 .....	3
<b>Technology &amp; Innovation</b>	
<i>Chemical Engineering courses:</i>	
Biofuels.....	3
Frontier Technologies .....	3
<i>Electrical &amp; Electronic Engineering course:</i>	
Distributed Generation Technologies .....	3
<i>Mechanical Engineering course:</i>	
Wind Turbine Design .....	3
MECHENG 7021 Combustion Technology and Emissions Control .....	3
MECHENG 7050 Sustainability & the Environment .....	3
TECHCOMM 7019 Social Entrepreneurship .....	3

#### 4.1.2 Elective Courses

*Architecture course:*

Architectural Issues and Sustainable Energy .....	3
PLANNING 7026 State of the City.....	3
PUBHLTH 7074 Introduction to Biostatistics.....	3
PUBHLTH 7075 Introduction to Epidemiology.....	3
PUBHLTH 7107HO Epidemiology of Infectious Diseases .....	3
PUBHLTH 7113HO Environmental and Occupational Health .....	3

Additionally candidates can select other electives courses chosen from programs offered by the University, subject to prior approval of the Program Coordinator.

#### 4.2 Unacceptable combinations of courses

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

#### 4.3 Graduation

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

### 5 Special circumstances

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

## **Graduate Attributes**

### Postgraduate programs in Sustainability

Desired graduate attributes are

- Understanding of sustainability concepts and principles and their application in social, economic and environmental contexts
- Understanding of the causes and potential impacts of climate change
- Knowledge of key technologies being developed and applied towards sustainability goals: energy generation, pollution mitigation, land use systems, environmental restoration
- Understanding of policy development and application
- Understanding of governance arrangements ranging from international law and conventions to local and community organisations
- Ability to apply systems analysis and integrated approaches to problem solving
- Highly developed communication skills
- Ability to relate to a wide range of specialists
- Ability to initiate and manage change



# Master of Urban Habitat Management

**Note: There will be no further intake into this program.**

## 1 Duration of program

To qualify for the Master of Urban Habitat Management a candidate shall satisfactorily complete a 48 unit program of study comprising four semesters of full-time study or not more than 8 semesters of part-time study.

## 2 Admission

2.1 An applicant for admission to the program of study for the Master of Urban Habitat Management degree must have:

- a qualified for an Honours degree from the University at an appropriate standard in an appropriate field of study, or a degree of another institution at an appropriate standard in an appropriate field of study accepted by the Faculty for the purpose as equivalent to an Honours degree of the University *or*
- b completed the Graduate Diploma in Urban Habitat Management at an average credit level or higher *or*
- c qualified for a degree of the University in an appropriate field of study or a degree of another institution in an appropriate field of study accepted by the Faculty for the purpose as equivalent to a degree of the University, and have relevant professional experience which is deemed by the Faculty to be equivalent to at least 12 units of tertiary study.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the degree a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the degree.

### 2.3 Status, exemption and credit transfer

- 2.3.1 Except with special permission of the Faculty, no candidate will be granted status for any course which he or she has completed for another award.
- 2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for graduate level studies.
- 2.3.3 In any case, no candidate will be awarded more than 6 units of status for such courses.
- 2.3.4 Notwithstanding Rules 2.3.1, 2.3.2 and 2.3.3, candidates admitted under Rules 2.1 (a) or (b) may be granted further status as applicable.
- 2.3.5 A candidate who fails a course and is allowed to repeat that course shall, unless exempted partially there from by the Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

## 2.4 Articulation with other awards

- 2.4.1 A candidate for the Master of Urban Habitat Management who does not complete the requirements for the Masters but satisfies the requirements for the Graduate Diploma, the Graduate Certificate or the Professional Certificate in Urban Habitat Management may be admitted to one or other of those awards as appropriate.
- 2.4.2 A candidate who has been admitted to the Graduate Diploma in Urban Habitat Management and who subsequently satisfies the requirements for the Master of Urban Habitat Management must surrender the Graduate Diploma before being admitted to the Master degree.

## 3 Assessment and examinations

- 3.1 There shall be four classifications of pass in any course for the Masters degree: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.
- 3.2
  - a 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.
  - b For the purpose of this Rule, a candidate who is refused permission to be assessed, by examination or otherwise, shall be deemed to have failed the course.
- 3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.
- 3.4 A candidate shall complete the coursework component of the degree with a credit average, before proceeding to the research component of the degree. A candidate who is not eligible to undertake the research component, but has satisfied the requirements for the Professional Certificate, Graduate Certificate or Graduate Diploma may be admitted to one or other of those awards as appropriate.

## 4 Qualification requirements

### 4.1 Academic program

To qualify for the degree of Master of Urban Habitat Management candidates shall, with the exception of Notes (i), (ii), (iii) and (iv) below, complete a program of study to a total of 48 units as follows.

Elective courses to the value of 24 units selected from the following:

GEST 5002 Environmental Planning & Governance.....	6
URBH 7100 Designing Urban Habitats for Biodiversity.....	6
URBH 7102 Internship in Urban Habitat Management* .....	6
URBH 7200 Managing Wildlife in Urban Habitats .	6
URBH 7201 Managing Urban Vegetation.....	6
<i>and</i>	
URBH 7000 A/B Urban Habitat Management Research and Dissertation F/T .....	24
<i>or</i>	
URBH 7001 A/B Urban Habitat Management Research and Dissertation P/T .....	24
<i>or</i>	
(for those candidates admitted under Rules 2.1 (a), (b) or (c))	
URBH 7002 Urban Habitat Management Research Project F/T.....	12
<i>or</i>	
URBH 7003 A/B Urban Habitat Management Research Project P/T .....	12

\*It is the responsibility of the student to find a suitable industry partner and to secure a member of academic staff to supervise their project.

- 4.2 To be eligible to have the degree conferred, candidates are required to provide three bound copies of the dissertation or project to the School, after the dissertation or project has been passed and accepted for the degree.

#### 4.3 Unacceptable combinations of courses

No candidate will be permitted to count for the degree any course that, in the opinion of the Faculty, contains substantially the same material as any other course that he or she has already presented for another award; and no course or portion of a course may be counted twice towards the degree.

#### 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.

### Notes:

- i Candidates who have completed the Graduate Diploma in Urban Habitat Management at an average Credit level, shall be permitted to transfer all equivalent courses towards the Masters degree and will only be required to complete the Urban Habitat Management Research and Dissertation.
- ii Candidates who have completed the Graduate Diploma in Urban Habitat Management at an average Credit level and have relevant professional experience shall be permitted to transfer all equivalent courses towards the Masters degree and be granted 12 units of status, and will only be required to complete the Urban Habitat Management Research Project.
- iii Candidates who have an Ordinary degree of the University in an appropriate field of study or a degree of another institution in an appropriate field of study accepted by the Faculty for the purpose as equivalent to an Ordinary degree of the University, and have relevant professional experience, shall be granted 12 units of status and be required to complete 24 units of coursework and the Urban Habitat Management Research Project.
- iv Candidates who have completed an Honours degree from the University, or equivalent, in a relevant discipline may be granted 24 units of status and be required to complete only 12 units of coursework and the Urban Habitat Management Research Project.

**Note: This program involves courses that may be attended by both undergraduate and postgraduate students.**

## 1 Duration of program

To qualify for the Master of Viticulture a candidate shall satisfactorily complete the equivalent of a program of study comprising 3 semester of full-time study or no more than 10 semesters of part-time study.

## 2 Admission

- 2.1 An applicant for admission to the academic program for the degree of Master of Viticulture shall have qualified for a Bachelor degree of the University of Adelaide in an appropriate field of study, or a degree of another institution accepted by the Faculty for the purpose as equivalent, plus have at least two years approved relevant work experience.
- 2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the degree a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the degree.

## 2.3 Status, exemption and credit transfer

- 2.3.1 No candidate will be permitted to count for the degree any course that, in the opinion of the Faculty, contains substantially the same material as any other course that he or she has already presented for another award. Except with special permission of the Faculty, no candidate will be granted status for any course that he or she has presented for any award.
- 2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for equivalent post-graduate level studies.
- 2.3.3 In any case, no candidate will be awarded more than 9 units of status, except for those candidates who have completed the Graduate Certificate in Viticulture or the Graduate Diploma in Viticulture.
- 2.3.4 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially by the Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

## 2.4 Articulation with other awards

- 2.4.1 A candidate for the Master of Viticulture who does not complete the requirements for the Masters degree but satisfies the requirements for the Graduate Certificate in Viticulture or Graduate Diploma in Viticulture may be admitted to one of those awards, as appropriate, subject to the student discontinuing candidature for the higher award.

- 2.4.2 A candidate who has been admitted to the Graduate Certificate in Viticulture or Graduate Diploma in Viticulture and who subsequently satisfies the requirements for the Master of Viticulture must surrender the Graduate Certificate or Graduate Diploma before being admitted to the Masters degree.

## 3 Assessment and examinations

- 3.1 There shall be four classifications of pass in any course for the Masters degree: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.
- 3.2
- 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 purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.
- 3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

To qualify for the degree, a candidate shall satisfactorily complete core and elective courses to the value of 36 units, as follows:

### 4.1 Academic program

#### 4.1.1 Core Courses

All candidates shall complete the following core courses:

VITICULT 7002WT Viticultural Science.....	3
VITICULT 7021WT Viticultural Production .....	3
VITICULT 7038WT Viticultural Methods & Procedures .....	3

#### 4.1.2 Elective Courses

All candidates shall complete elective courses selected from the following:

AGRONOMY 7130WT Viticultural Engineering and Irrigation.....	3
OENOLOGY 7019WT Sensory Studies .....	3
OENOLOGY 7028WT Introductory Winemaking...	3
PLANT SC 7004WT Mineral Nutrition of Plants....	3
PLANT SC 7131WT Integrated Pest Management .....	3
SOIL&WAT 7003WT Topics in Soil and Land Systems .....	3

SOIL&WAT 7020WT Soil Water Management .....	3
VITICULT 7001WT Advances in Viticultural Science .....	3
WINEMKTG 7055WT Wine and Food Marketing Principles .....	3

Plus other electives chosen from postgraduate programs offered by the Faculty, subject to prior approval of the Program Coordinator.

Note: a candidate who is a graduate of the University of Adelaide in the B.Agric.Sc.(Oenology) or B.Oenology will have the core courses VITICULT 7002WT Viticultural Science and VITICULT 7021WT Viticultural Production replaced by VITICULT 7001WT Advances in Viticultural Science and an elective course selected with the approval of the Program Coordinator.

#### 4.1.3 Optional supervised research project

Subject to the approval of the program coordinator, 12 units of supervised research project can be completed in lieu of elective courses listed above subject to the availability of a nominated supervisor:

AGRIC 7014WT Project F .....	12
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#### 4.2 Unacceptable combinations of courses

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

#### 4.3 Graduation

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

### 5 Special circumstances

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

**Note: This program involves courses that may be attended by both undergraduate and postgraduate students.**

## 1 Duration of program

To qualify for the Master of Wine Business, a candidate shall satisfactorily complete the equivalent of a program of study comprising 3 semester of full-time study or no more than 10 semesters of part-time study.

## 2 Admission

2.1 An applicant for admission to the academic program for the degree of Master of Wine Business shall have qualified for a Bachelor degree of the University of Adelaide in an appropriate field of study, or a degree of another institution accepted by the Faculty for the purpose as equivalent, plus have at least two years approved relevant work experience.

2.2 The Faculty may, subject to such conditions as it may see fit to impose in each case, accept as a candidate for the degree a person who does not satisfy the requirements of Rule 2.1 above but who has presented evidence satisfactory to the Faculty of fitness to undertake work for the degree.

## 2.3 Status, exemption and credit transfer

2.3.1 No candidate will be permitted to count for the degree any course that, in the opinion of the Faculty, contains substantially the same material as any other course that he or she has already presented for another award. Except with special permission of the Faculty, no candidate will be granted status for any course that he or she has presented for any award.

2.3.2 Such status as may be awarded in exceptional circumstances will only be awarded for equivalent postgraduate level studies.

2.3.3 In any case, no candidate will be awarded more than 9 units of status, except for those candidates who have completed the Graduate Certificate in Wine Business or the Graduate Diploma in Wine Business.

2.3.4 A candidate who fails a course and wishes to repeat that course shall, unless exempted partially by the Faculty, again complete the required work in the course to the satisfaction of the teaching staff concerned.

## 2.4 Articulation with other awards

2.4.1 A candidate for the Master of Wine Business who does not complete the requirements for the Masters degree but satisfies the requirements for the Graduate Certificate in Wine Business or Graduate Diploma in Wine Business may be admitted to one of those awards, as appropriate, subject to the student discontinuing candidature for the higher award.

2.4.2 A candidate who has been admitted to the Graduate Certificate in Wine Business or Graduate Diploma in Wine Business and who subsequently satisfies the requirements for the Master of Wine Business must surrender the Graduate Certificate or Graduate Diploma before being admitted to the Masters degree.

## 3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Masters degree: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

3.2 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 purpose of this Rule, a candidate who is refused permission to sit for examination shall be deemed to have failed the examination.

3.3 A candidate who has failed a course twice may not re-enrol in that course except by special permission of the Faculty and then only under such conditions as may be prescribed.

## 4 Qualification requirements

To qualify for the degree, a candidate shall satisfactorily complete core and elective courses to the value of 36 units, as follows:

### 4.1 Academic program

#### 4.1.1 Core Courses

All candidates shall complete the following core courses:

OENOLOGY 7002NW/EX Vineyard and Winery Operations I .....	3
OENOLOGY 7003NW/EX Vineyard and Winery Operations IIA .....	3
WINEMKTG 7049WT/EX Global Wine Market.....	3
WINEMKTG 7066WT/EX Advanced Wine Marketing .....	6
WINEMKTG 7067WT/EX Winery Business Management .....	6

#### 4.1.2 Elective Courses

All candidates shall complete elective courses selected from the following:

AGRIBUS 7009WT Issues in Australian Agribusiness .....	3
AGRIBUS 7012WT International Agribusiness Environment.....	3

AGRIBUS 7044WT Agricultural Business Management .....	3
MARKETNG 7027 Brand Management .....	3
MARKETNG 7028 E-Marketing.....	3
MARKETNG 7031 Relationship Marketing .....	3
MARKETNG 7032 Strategic Marketing .....	3
WINEMKTG 7003WT/EX Advertising and Promotion .....	3
WINEMKTG 7005WT/EX Wine and Food Tourism and Festivals .....	3
WINEMKTG 7006WT/EX Wine Retail and Distribution Management.....	3
WINEMKTG 7062EX Microeconomic Principles ...	3
WINEMKTG 7030WT/EX Wine and Society .....	3
WINEMKTG 7033WT Research Methodology and Methods .....	3
WINEMKTG 7035WT/EX International Wine Law .....	3
WINEMKTG 7039WT/EX Applied Marketing Research .....	3
WINEMKTG 7052WT Applied Management Science .....	3
WINEMKTG 7053EX/WT Introduction to Managerial and Financial Accounting .....	3
WINEMKTG 7054EX Legal Issues in Wine Marketing .....	3
WINEMKTG 7055WT/EX Wine and Food Marketing Principles .....	3
WINEMKTG 7057WT/EX Food Marketing .....	3
WINEMKTG 7058WT/EX International Marketing of Wine and Agricultural Products .....	3
WINEMKTG 7060EX Consumer Behavioural Analysis.....	3
WINEMKTG 7063EX Macroeconomic Essentials for Wine and Food Business .....	3
WINEMKTG 7065WT/EX Database Marketing for Wine and Food Business .....	3
WINEMKTG 7066WT/EX Advanced Winemarketing A .....	6
WINEMKTG 7067WT/EX Winery Business Management A .....	6

#### 4.1.3 Optional supervised research project

Subject to the approval of the Program Coordinator, a 12 unit of supervised research project can be completed in lieu of the core and elective courses.

#### 4.2 Unacceptable combinations of courses

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

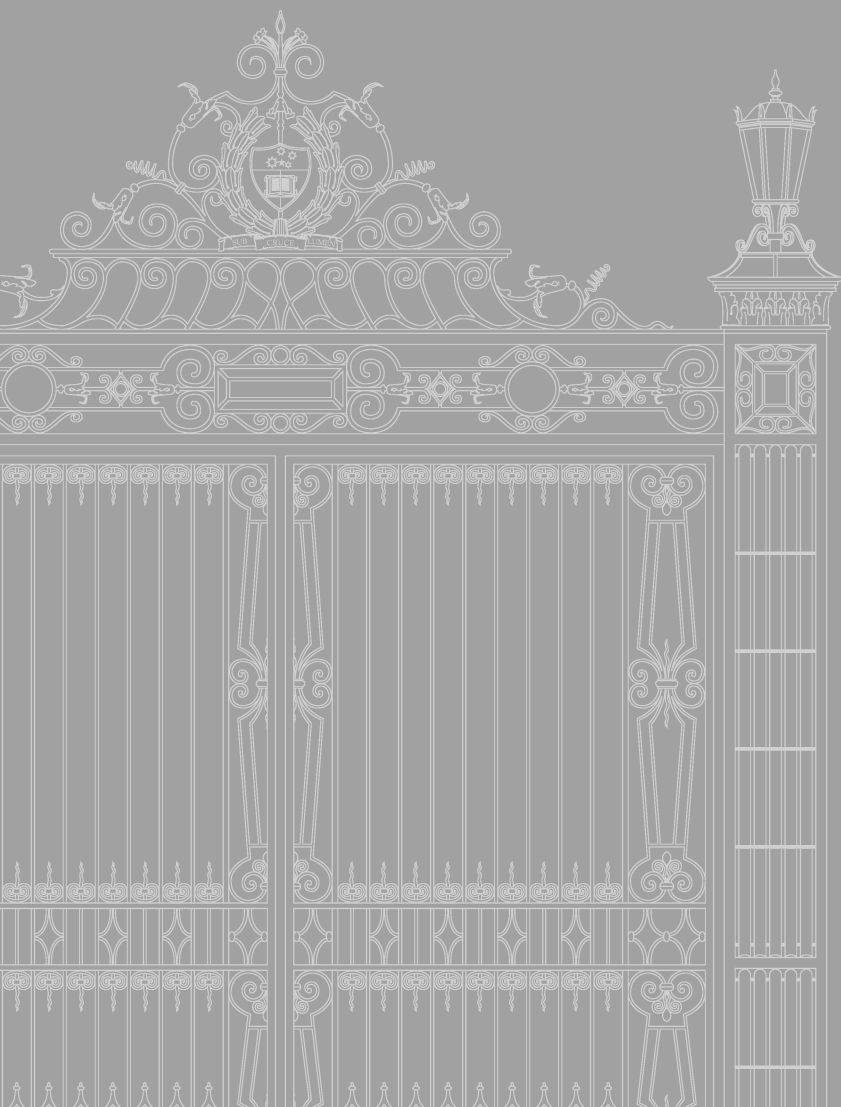
#### 4.3 Graduation

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

#### 5 Special circumstances

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





# Academic Program Rules

# Professional and Continuing Education

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<sup>†</sup> There will be no intake into this program in 2009.

## Postgraduate Awards

- Professional Certificate in Arbitration
- Certificate IV in Teaching English to Speaker of Other Languages (TESOL)

### 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.



# Professional Certificate in Arbitration

**Note: There will be no intake into this program in 2009.**

## 1 Duration of program

Taught over two semesters, the Professional Certificate in Arbitration comprises a General and Advanced course, each with 13 weeks of online learning or face-to-face tutorials. There is a compulsory one-day workshop each semester and an additional one-day program for online students.

An introductory session to the Australian Legal System is provided at the commencement of the General Course.

Online learning is offered to students unable to attend tutorials in designated locations.

## 2 Admission

### 2.1 Basic qualifications

- 2.1.1 The qualifications which would allow automatic admission to the Professional Certificate are recommended as one of the following:
- a A degree from a University recognised by the University of Adelaide in a field or discipline leading to the holder's practising in the relevant field, plus two years continuous practice in the field
  - b A diploma or other tertiary qualification from a University or institution (including a TAFE college) recognised by the University of Adelaide, plus not less than three years experience in the practice of the calling for which the qualification is held  
*or*
  - c A recognised industry-based qualification (such as training in business management through the Institute of Management), the holding of a senior and responsible position within business or industry with not less than four years total experience  
*or*
  - d The holding of a senior position in a field of practice or discipline, plus not less than five years total experience in that field  
*or*
  - e Such other qualification or experience as the Faculty of Law, on the advice of the Advisory Board of Management, sees fit.
- 2.1.2 Being a person of good repute with no criminal record and holding a senior and respected position in the field of practice in which the person works.
- 2.1.3 Relevance of the Professional Certificate as contributing towards a masters degree:

Graduates possessing a Professional Certificate may be allowed to continue to study for the qualification of a Masters Degree Law specialising in Arbitration provided that:

- a They possess the necessary other qualifications required (e.g. the holding of an appropriate degree)
- b They are acceptable to the relevant Faculty of Law admitting them as students.

### 2.2 Status

Candidates possessing a law degree may be granted exemption from the General Program, dependent on their years of experience in the field and the number of ADR cases dealt with in their professional career.

## 3 Assessment

General course assessment comprises the following:

- a participation at compulsory one-day workshop
- b 3,000 word assignment
- c 2 hour exam
- c participation in discussion threads and other online activities (online students only).

The Advanced course assessment consists of the following:

- a participation at the one-day workshop
- b 4000-5000 word assignment
- c 3 hour final exam
- d participation in discussion threads and other online activities (online students only).

## 4 Qualification requirements

### 4.1 Program of study

To qualify for the Professional Certificate, a candidate shall satisfactorily complete the General course, and successfully pass all components of the Advanced course.

Candidates are serviced with all program materials, including text book, Arbitration DVD and website for online learning.

Email enquiries: [pce@adelaide.edu.au](mailto:pce@adelaide.edu.au)

## Graduate Attributes

### Professional Certificate in Arbitration

#### Knowledge

On completion of this program, the student should have an understanding of:

- Basic legal principles applicable to simple arbitrations including the Law of Torts, the Law of Contract, Trade Practices, Law, Waiver and Estoppel and the Law of Evidence
- Principles of Procedural Fairness including bias, notice, opportunity to a present case and rebut an opposing case(s), and the necessity to rely upon logically compelling evidence
- The application, scope and operation of the Commercial Arbitration Act
- The validity and enforceability of an arbitration agreement
- The severability of dispute resolution clauses
- The scope of an arbitrator's jurisdiction
- Confidentiality and privacy within an arbitration
- The principles and process governing the holding of a preliminary conference including knowledge of the various directions which the arbitrator may make to conduct the arbitration fairly and expeditiously
- The principles underlying the arbitrator's power to conduct a mediation
- The distinction in process between expedited and more complex and lengthy cases
- The process of discovery
- Subpoenas
- The principles and process governing simple interlocutory matters
- The distinction between 'documents only hearings' and hearing where oral evidence is taken
- The principles governing the conduct of a fair hearing
- The principles governing the receipt of evidence
- The principles governing expert evidence
- The process governing the receipt of expert evidence
- The principles and process governing the recording of evidence
- The legal requirements of a valid award
- The professional requirements of a well crafted award
- The powers of the courts to review the arbitration process
- The powers of the courts on appeal from an arbitration.

#### Skills

On completion of this program, the student should demonstrate the ability to:

- Work within the system/rules governing the accepting and handling of cases
- Allocate time, effort and other resources so as to deal expeditiously with information, issues, scheduling, witnesses, parties and the conduct of an arbitration
- Explain the role of the arbitrator
- Conduct a simple preliminary conference
- Determine simple questions of legitimacy and jurisdiction
- Supervise the parties to an arbitration
- Handle simple interlocutory matters.

## Professional Certificate in Arbitration (cont'd)

- Keep proper records of arbitration
- Speak clearly
- Maintain a conducive atmosphere throughout the arbitration
- Conduct a fair hearing
- Conduct a simple hearing according to the requisite procedural requirement
- Organise and analyse data
- Differentiate between different types of evidence (oral, documentary, direct, indirect, hearsay)
- Correctly apply basic legal principles to simple fact scenarios
- Observe and accurately interpret evidence
- Differentiate between the value and reliability of evidence
- Determine inferences that can be properly drawn from data presented and omitted
- Bring simple cases to completion
- Summarise facts and conclusions
- Reference any law relied upon
- Convey a decision clearly to the parties.

### **Attitudes**

On completion of this program, the student should demonstrate an:

- Understanding of the appropriate relationship between an arbitrator and the parties to dispute
- Understanding of the need to remain impartial and independent
- Understanding of the need to maintain legitimacy
- Understanding of the need to remain informed, responsible and critically discriminating in his or her participation in the community
- Commitment to ethical and personal standards of professional behaviour.



# Certificate in Teaching English to Speakers of Other Languages (TESOL)

## 1 General

There shall be a Certificate IV in Teaching English to Speakers of Other Languages (TESOL).

## 2 Duration of program

The Certificate IV in TESOL is delivered in a full-time intensive mode or part-time, semi-intensive mode. Either mode consists of 120 hours contact time with 100 hours of independent study required

## 3 Admission

3.1 For admission to the program of study for Certificate IV in TESOL applicants must have:

- a a completed postsecondary degree, diploma or certificate and/or relevant vocational experience
- b met the minimum requirements of the pre-interview tasks and interview.

A candidate will not be permitted to defer an offer of admission to the program.

## 4 Enrolment

4.1 Candidates must obtain the approval of the Director of Studies of the University's English Language Centre (ELC) or their nominee for the proposed program of study.

4.2 The requirements of the program must be completed within the duration of the program.

## 5 Assessment and Examination

5.1 Students are required to attend all course sessions. Students who do not comply may be failed.

5.2 In determining a candidate's final result in the program examiners will take into account assignments, attendance, participation, and delivery and presentation of practical teaching sessions.

5.3 There shall be four classifications of pass in the final assessment of the program for the Certificate awards: Pass with High Distinction, Pass with Distinction, Pass with Credit and Pass.

5.4 A candidate who has twice failed an assignment may not resubmit except by special permission of the Director of Studies of the ELC and then only under such conditions as prescribed.

## 6 Qualification requirements

6.1 To qualify for the Certificate IV in TESOL a candidate shall satisfactorily complete all theoretical courses and practical courses.

6.2 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.

### 6.2.1 Academic Program

Candidates shall satisfactorily complete the course:

Teaching English to Speakers of Other Languages..... 12

This course consists of the following core Modules:

- i Apply Adult TESOL Methodologies to Develop English Language skills
- ii Design and Develop Learning Strategies
- iii Design and Develop Learning Resources
- iv Identify and use basic Grammatical Concepts and Traditional Metalanguage
- v Plan an Integrated Lesson using Communicative Language Teaching Methodology
- vi Use the Terminology of Traditional Grammar and Locate Information in a Grammar Book

**Notes** (not forming part of the Academic Program Rules)

1 The Certificate IV in TESOL is a nationally accredited award.

2 Special Circumstances

When in the opinion of the ELC 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

### Certificate IV in Teaching English to Speakers of Other Languages (TESOL)

The following attributes are developed by this program:

#### Knowledge

On completion of this program, the student should have an understanding of:

- Discuss factors involved in second language acquisition by adults
- Describe features of different learning styles in relation to language learning
- Be aware of the linguistic knowledge that a native speaker of English has
- Identify and explain the relevance of functions and notions in the TESOL context relevant to learners at different stages of language development
- Identify and explain the relevance of genre in the TESOL context
- Name and discuss a range of grammatical structures
- Demonstrate effective strategies for managing student activities
- Discuss the processes involved in developing the skills of reading, writing, listening and speaking in a TESOL context
- Describe various communicative teaching strategies applicable to the TESOL environment
- Identify the elements of good or poor teaching materials
- Describe and explain the application of a range of common assessment tools.

#### Skills

On completion of this program, the trainee teacher should demonstrate the ability to:

- Use grammatical terms accurately in lesson planning and classroom delivery
- Identify and correct grammatical errors and explain corrections
- Develop appropriate lesson materials
- Manage time in class effectively and sensitively
- Analyse personal cultural assumptions and expectations in relation to working in a TESOL classroom
- Flexibly and effectively use classroom resources, realia and authentic materials in language teaching
- Describe and apply various communicative teaching strategies applicable to the TESOL environment
- Evaluate various styles of teaching in relation to own performance
- Construct effective teaching plans for individual lessons
- Identify the elements of syllabus design.

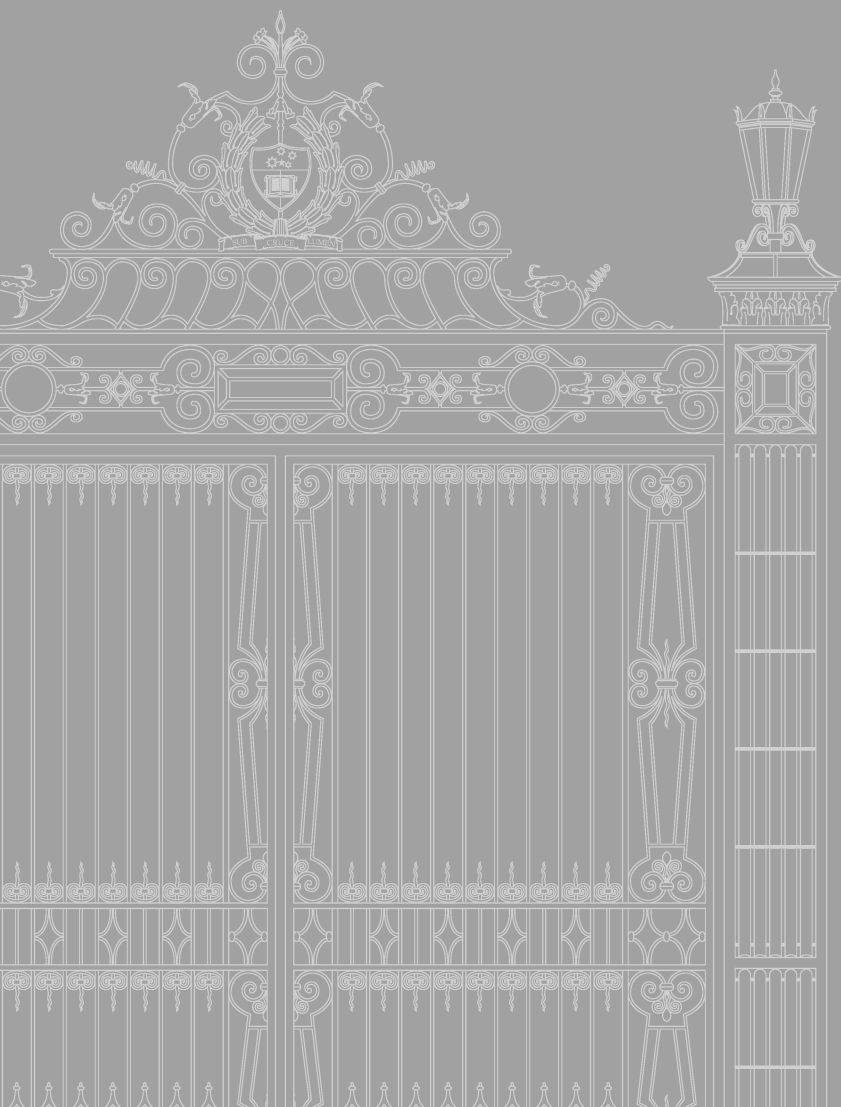
#### Qualities

On completion of this program, the trainee teacher should demonstrate the following qualities:

- Taking responsibility for further learning and professional development.
- Applying logical, critical and innovative thinking to a range of issues and ideas.
- Engaging effectively with the cultural and intellectual ideas of others.
- Being a competent, creative and a critical user of information communication.
- Being committed to the interests of the learners.
- Being aware and empathetic to the concerns of individuals which may impact on learning.
- Being committed to ethical and personal standards of professional behaviour.
- Being committed to the implementation of policies of equity and diversity in the profession.







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# Accounting

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## **ACCTING 7009 Auditing & Assurance Services (M)**

3 units - summer semester or semester 1 or 2

3 hour seminar per week

Assumed Knowledge: ACCTING 7000, ACCTING 7012 or ACCTING 7019, COMMERCE 7021 or COMMLAW 7021

Assessment: Assignments, exam as determined at first class

The course examines the principles and practices of internal and external auditing. Topics: auditing as a component of recurrent and strategic activities, risk assessment, internal control, systems evaluation, forensic accountability, and contemporary audit issues and challenges.

## **ACCTING 7014 Management Accounting (M)**

3 units - semester 1 or 2

2 lectures, 1 tutorial per week

Assumed Knowledge: ACCTING 7000 or ACCTING 7019

Assessment: assignments, exam as determined at first class

The course introduces students to contemporary management accounting concepts and techniques. Topics: the role of accountants in internal decision-making; tools used to design and develop costing systems; preparation of budgets and their role as a planning and control tool; other decision-making tools including CVP analysis, pricing decisions, inventory issues and costs of quality; fraud.

## **ACCTING 7015 Advanced Financial Reporting (M)**

3 units - semester 1 or 2

3 hour seminar per week

Assumed Knowledge: at least 2 accounting specialisation courses

Assessment: Assignments, exam as determined at first class

The course will investigate current developments and issues for corporate governance and financial reporting in Australia and internationally. Topics: corporate governance and corporate disclosure reforms in Australia, the adoption of IFRSs and major changes to AASBs, impairment of assets, intangibles and intellectual capital, international accounting classification schemes, national culture and diversity/harmonisation of accounting systems, financial reporting in transitional economies, comparative country studies of accounting and reporting, disclosure practices of initial public offerings.

## **ACCTING 7018 Public Sector & Not-For-Profit Accounting (M)**

3 units - semester 1

3 hour seminar per week

Assumed Knowledge: at least 2 accounting specialisation courses

Assessment: Assignments, exam as determined at first class

The course examines the concepts, methods and contexts of governance, financial management and financial reporting in public sector and not-for-profit entities.

Topics: the nature and directions of public sector and not-for-profit sector governance, the new public sector era, dimensions of accountability, financial statements for government departments, local governments and whole-of-governments, infrastructure and heritage assets, output-based accrual reporting and budgeting systems, governance and accountability in non-for-profit organisations, quantitative and qualitative performance measures, and financial reporting approaches and issues for not-for-profit entities.

## **ACCTING 7019 Accounting Concepts and Methods (M)**

3 units - semester 1 or 2

2 hour lecture, 1 hour tutorial per week

Incompatible: not to be counted with ACCT 7000

Assessment: Practice sets, assignment, exam as determined at the first lecture

This course introduces students to the fundamentals of financial accounting practice. It develops students' understanding of key accounting concepts, recording methods and measuring and disclosing requirements. Topics include an introduction to accounting information in decision contexts, the conceptual framework (SAC 1, SAC 2, the Framework), Income Statement and Balance Sheet, recording financial transactions, adjusting entries and the accounting cycle, inventory, revaluations, cost of acquisition, depreciation, introductory financial statement analysis, organisational structures (sole proprietors, partnerships, companies, not for profit), cash flow statements, and other selected issues relating to financial reporting standards.

## **ACCTING 7020 Intermediate Financial Reporting (M)**

3 units - semester 1 or 2

2 hour lecture and 1 hour tutorial per week

Prerequisite: ACCTING 7019 Accounting Concepts and Methods (M) and CORPFIN 7005 Principles of Finance (M)

Assessment: Assignments and exam as determined at first lecture

This course extends students' knowledge of corporate external financial reporting. It focuses on corporate disclosure and measurement issues and practices in a regulated environment. Topics include measurement of income, assets, and liabilities (including provision accounting), accounting for Income Tax, non-current assets (acquisition, subsequent cost or revaluation model, impairment of individual assets and cash generating units), intangible assets and goodwill, accounting for leases, employee benefits and share based payments, foreign currency transactions, and accounting for financial instruments (including hedging).

## **ACCTING 7023** **Advanced Financial Accounting (M)**

3 units - semester 1 or 2

2 hour lecture and 2 hour tutorial per week

Prerequisite: ACCTING 7020

Assessment: Assignments and exam as determined at first lecture

This course focuses on the theory and practice of corporate investments and transactions between the company and other parties (for example related parties and superannuation funds). It investigates various theories and their applications relating to management incentives for the provision of corporate information and its use in capital markets. Topics include company consolidations (pre-acquisition, intra-group transactions, minority interest), associates and joint ventures, foreign currency translations, related parties, segment reporting and superannuation.

## **ACCTING 7024** **Accounting Essentials for Decision Making (M)**

3 units - semester 1 or 2

Incompatible: not to be counted with ACCT 7000

Assessment: Assignments and exams as determined in first class

The course introduces students to the use of accounting information by external users and management. Topics: accounting information in its decision making contexts, the major financial accounting statements and their underlying concepts and principles, financing and business structure, analysis and interpretation of financial information, the time value of money, capital budgeting, cost-volume-profit analysis, management accounting tools of analysis and budget.

## **ACCTING 7101** **Advanced Theory in Accounting (M)**

3 units - semester 1 or 2

Assessment: Written assignment 60%, participation 20%, class presentations 20%

This course is designed to fulfil the following student learning objectives: obtain an in-depth understanding of some of the main theoretical and research perspectives that have contributed to the literature in accounting; ability to critically review the application of behavioural and market based theories underlying financial accounting and reporting, auditing and management accounting research, respectively. Topics in financial accounting and reporting include: applications of agency theory, positive accounting theory, legitimacy theory, institutional theory. Topics in management accounting include: applications of contingency theory, control theory and grounded theory.

This is essentially a reading-based course in which students will critically review scholarly research articles each week in advance. Participation marks will also be awarded for demonstration of effective reading and understanding the arguments presented.

# **Agricultural Business**

## **AGRIBUS 7009WT** **Issues in Australian Agribusiness**

3 units - semester 2

1 x 2 hour lecture, 1 x 1 hour tutorial per week

Assumed Knowledge: General marketing concepts

This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students

This course focuses on current agribusiness issues in Australia. Of particular importance are inter-relationships between businesses and the macro environment. Topics will include world food balances, market failure, WTO, globalisation, value adding, diversification, quality and quality management, value chains and other developments in strategic marketing. Student seminar presentations are a critical component of this course.

## **AGRIBUS 7012WT** **International Agri-Business Environment**

3 units - semester 2

1 x 2 hour lecture, 1 x 1 hour tutorial per week

This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students

This course provides an overview of the international business environment within which agribusinesses function. Topics include Australian trade and investment policies, international cooperation arrangements, legal and political issues, cross-cultural issues, strategies for entering foreign markets, strategic alliance issues, logistics, international human resource management issues, regional case studies. Student seminar presentations are a critical component of this course.

## **AGRIBUS 7031WT** **Topics in Agricultural Business B**

3 units - semester 1 or 2

Up to 3 hours per week with supervisor by arrangement

Prerequisite: Approval of Agricultural Business program coordinator

Assessment: Written assignments & oral presentations

The course will offer the opportunity to the student to cover a range of topics in Agricultural Business (including wine and food) as it relates to the students study program and the teaching and research interests of staff and visiting academics.

## **AGRIBUS 7041WT** **Topics in Agricultural Business A**

3 units - semester 1 or 2

Up to 3 hours per week with supervisor by arrangement

Prerequisite: Approval of Agricultural Business program coordinator

Assessment: Written assignments, oral presentation

The course will offer the opportunity to the student to cover a range of topics in Agricultural Business (including wine and food) as it relates to the student's study program and the teaching and research interests of staff and visiting academics.

### **AGRIBUS 7044WT** **Agricultural Business Management**

3 units - semester 1

Multi-modal - 3 hour seminar each week

Assessment: To be advised

The aim of this course is to provide perspective and understanding of the overall management role, and to demonstrate linkages between various management functions. Aspects covered include, introducing management and agricultural business, accounting management, financial management, risk management, investment appraisal, legal aspects of agricultural business, and human resources management.

### **AGRIBUS 7046WT** **Problems in Agricultural Business A**

3 units - semester 1 or 2

Up to 3 hours per week with supervisor by arrangement

Prerequisite: Approval of Agricultural Business program coordinator

Assessment: Written assignments, oral presentations

This course will offer the student the opportunity to investigate a problem in the agricultural business area (including wine and food). The problem will relate to the student's study program and the teaching and research interests of staff and visiting academics.

### **AGRIBUS 7047WT** **Problems in Agricultural Business B**

3 units - semester 1 or 2

Up to 3 hours per week with supervisor by arrangement

Prerequisite: Approval of Agricultural Business program coordinator

Assessment: Written assignments & oral presentations

This course will offer the student the opportunity to investigate a problem in the agricultural business area (including wine and food). The problem will relate to the students study program and the teaching and research interests of staff and visiting academics.

## **Agriculture**

### **AGRIC 7004AWT/BWT** **Project F (AW)**

12 units - full year

By arrangement with Supervisor

Prerequisite: completion of relevant courses, as judged by program coordinator & project supervisor

Assessment: To be advised

Projects comprise some or all of laboratory experiments, field trials, case studies, and critical literature reviews, and normally culminate in a seminar and a substantial written report. Topics for projects are chosen in consultation with the Project Supervisor. This course is the second half of a project that is completed over 2 semesters.

### **AGRIC 7014WT** **Project F (ANR)**

12 units - semester 1 or 2

Contact with supervisor by arrangement

Prerequisite: completion of relevant courses, as judged by the Program Coordinator and Project Supervisor

Assessment: To be advised

Projects comprise some or all of laboratory experiments, field trials, case studies, and critical literature reviews, and normally culminate in a seminar and a substantial written report. Topics for projects are chosen in consultation with the Project Supervisor.

## **Agromony**

### **AGRONOMY 7130WT** **Viticultural Engineering and Irrigation**

3 units - semester 1

1 x 2 hour Lecture, 1 x 1 hour Tutorial, 1 x 3 hour Practical per week

Assumed Knowledge: CHEM ENG 1001 and SOIL&WAT 2013RW or equiv

Incompatible: AGRONOMY 7021WT

Assessment: May include practical reports, trip reports, assignments, individual projects, exam

Note: This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students

Students will be introduced to concepts and techniques used in the engineering aspects of trellis design, tractor operation and maintenance, oil hydraulic systems and irrigation systems.

## **Anatomical Science**

### **ANAT SC 5000A/B** **Human Anatomy for Graduate Certificate**

12 units - full year

4 x 2.5 hour late afternoon/evening tutorial/ practical sessions per week

Restriction: Grad. Cert. Anatomy students only

Prerequisite: UG degree, or equiv, including Biology

Assessment: to be advised at start of year

This is a course of detailed human gross anatomy that permits students to gain an in-depth knowledge of systematic/regional gross anatomy by dissection of the human cadaver. The majority of coursework will be of a problem-based, self directed type as students will be given dissection tasks introducing them in depth to the structure of systems and all regions of the human body. During the last 2 months of the course each student will do a project which involves preparation of a display quality prosection and presentation of a lecture on the anatomy of the prosected part of the body.

# Animal Science

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## **ANIML SC 7025RW**

### **Pig Production - Science into Practice**

3 units - winter semester

Intensive course

Restriction: M Pig Science & Management students

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This course will provide students with both a practical and theoretical understanding of how a pork production business operates. Further, it will give students a basic knowledge of the major inputs into pork production (genetics, reproduction, nutrition, environment & health) and how they can be manipulated to optimise efficiency of pig meat production. Lastly, this course will provide students with the necessary knowledge to assess the efficiency of a complete pork production enterprise in order to identify strengths & weaknesses.

## **ANIML SC 7026RW**

### **Biotechnology in the Pork Industry**

3 units - semester 1

Intensive course

Restriction: Pig Science & Management students

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This course will provide students with both a practical and theoretical understanding of the key biotechnologies that are likely to affect a pork industry business. Specifically, this course will provide students with in-depth understanding of current and likely future reproductive, genetic and health technologies as they apply to the pig.

## **ANIML SC 7027RW**

### **Business Management Pork Industry**

3 units - semester 2

Intensive course

Restriction: Pig Science & Management students

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This course will provide students with both a practical and theoretical understanding of how an industry enterprise is managed. Further, it will give students a basic knowledge of the major aspects of business management for the pork industry business. Lastly, this course will provide students with the necessary knowledge to assess the viability of a pork industry

## **ANIML SC 7028RW**

### **Advanced Pig Nutrition**

3 units - semester 2

Intensive courses

Restriction: Pig Science & Management students

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This course will provide students with both a practical and theoretical understanding of the nutrition of pigs. Further, it will give students an understanding of the impact of changes in nutrient supply on the growth & reproductive performance of pigs. Lastly, this course will provide students with the necessary knowledge to assess the role of metabolic modifiers in pig nutrition in a practical pork production enterprise.

## **ANIML SC 7029RW**

### **Pig Health**

3 units - semester 2

Intensive course

Restriction: Pig Science & Management students

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This course will provide students with both a practical and theoretical understanding of how disease affects a pork industry business. Further, it will give students a basic knowledge of the major diseases that are likely to affect a pork industry business and what can be done to prevent or treat them. Lastly, this course will provide students with the necessary knowledge to recognise and deal with an outbreak of an exotic disease.

## **ANIML SC 7030RW**

### **Science & Marketing of Pig Meat**

3 units - semester 2

Intensive course

Restriction: Pig Science & Management students

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This course will provide students with a basic understanding of meat science. Further, it will give students a broad knowledge of the major factors that determine the quality of pig meat and the distribution of tissues within a carcass (i.e. carcass quality). Lastly, this course will provide students with an understanding of how pig meat is marketed both within Australia & globally.

## **ANIML SC 7031RW**

### **Pork Industry Placement**

6 units - semester 2

Intensive course

Restriction: Pig Science & Management students

Assessment: Written report, oral presentation

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This course will provide students with both a theoretical and practical understanding of how a pork industry business operates. Further, it will give students the opportunity to conduct an in-depth analysis of all the key aspects of a pork industry business. This will take the form of a single major report that details the structure of the business, physical and financial performance data, marketing strategy, mechanisms for decision making, how the business plans its future and how it utilises scientific knowledge to improve the business.

## **ANIML SC 7032RW**

### **Research Project (Pig Science & Management)**

12 units - semester 2

40 hours per week for 20 weeks

Restriction: M Pig Science & Management students

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Syllabus details to be advised.

# Architecture

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## ARCH 7015

### Architecture Elective Studio A (M)

6 units - semester 1

Up to 9 hours lectures/tutorials/workshops including an average 6 hours studio; contact hours vary from week to week

Restriction: M.Arch. (Cswk) and M.L.Arch. students

Incompatible: ARCH 7011

Assessment: Assignments, projects

This course will explore selected aspects of design in architecture that allow students to learn from the particular expertise of the course leader(s). The range of possible topics is broad and may change each year. The focus may include some of the following design, cultural and technical topics and issues: design exploration, form generation, sustainability, prefabrication, heritage, design for overseas locations, high-rise projects, and adaptation of existing buildings.

## ARCH 7016

### Architecture Studio (M)

6 units - semester 1

Up to 9 hours lectures/tutorials/workshops including an average 6 hours studio; contact hours vary from week to week

Restriction: M.Arch. (Cswk) students only

Incompatible: ARCH 7010

Assessment: assignments, projects

This course focuses on the design and construction of a house or similar small building. Students will develop a brief from a client's instructions, develop design options that respond to the brief, the site and environmental objectives, predict and analyse the potential performance of the chosen design, and develop a set of construction specifications and drawings. The analysis and documentation will be carried out using digital media.

## ARCH 7017

### Urban Design Studio (M)

6 units - semester 2

Intensive studio in approx. Weeks 1-8; up to 18 hours lectures/tutorials/workshops including an average of 6 hours studio; contact hours vary from week to week

Restriction: MArch, MArch, MPlan, MPlan(UD), and MArch/MPlan(UD), MArch/MArch students only

Incompatible: ARCH 7012 or LARCH 7012

Assessment: Assignments and projects

This course addresses the theory and practice of urban design and its expression in two kinds of urban design projects: 'hard landscape' urban projects such as an alley, square or street; and large-scale elements in the urban landscape such as a footbridge or shade structure. Projects are developed from conceptual levels to outline construction strategies and details. Design processes and presentation emphasise the role of digital media in urban design modelling and simulation.

## ARCH 7018

### Architecture Elective Studio B (M)

6 units - semester 2

Intensive studio in approx Weeks 8-13; up to 18 hours lectures/tutorials/workshops including an average of 6 hours studio; contact hours vary from week to week

Restriction: M.Arch. (Cswk) and M.L.Arch. students only

Incompatible: ARCH 7009

Assessment: Assignments and projects

This course will explore selected aspects of design in architecture that allow students to learn from the particular expertise of the course leader(s). The range of possible topics is broad and may change each year. The focus may include some of the following design, cultural and technical topics and issues: design exploration, form generation, sustainability, prefabrication, heritage, design for overseas locations, high-rise projects, and adaptation of existing buildings.

## ARCH 7019

### Architecture Processes (M)

6 units - semester 1

Up to 18 hours lectures/tutorials/workshops including an average of 6 hours studio; contact hours vary from week to week

Restriction: M.Arch. (Cswk) students only

Prerequisite: 18 units of Level I M.Arch.(Cswk) or B.Arch. including at least 12 units of core courses

Corequisite: ARCH 7020 & ARCH 7025A

Incompatible: ARCH 7013

Assessment: Assignments and projects

This course will mirror in an educational setting the processes by which medium to large scale architecture projects are managed, initiated, developed and documented. Students will develop integrated proposals for a mixed-use urban project or projects raising significant urban design issues, linking stages from project conception and planning to construction and documentation. It will address the stakeholders, environment, and means of achieving design objectives.

## ARCH 7020

### Professional Practice (M)

3 units - semester 1

Up to 5 hours lectures per week

Restriction: M.Arch. (Cswk) and M.L.Arch. students

Corequisite: ARCH 7019 Architecture Processes (M) or LARCH 7019 Landscape Architecture Processes (M)

Incompatible: ARCH 7014 Architecture Practice II or LARCH 7014 Landscape Architecture Practice II

Assessment: Work diaries, seminar papers, projects

This course examines practice management and project management in the built environment professions, particularly architecture and landscape architecture. Topics in practice management include: ethical practice; the character and operation of practices; legal requirements; cash flow and profitability; running a business; professional memberships and registration; risk and professional liability; and personal career planning. Topics in project management include: project stages;

procurement and feasibility; statutory requirements; management of time, cost and quality; and contracts and contract administration in private and public realms. The course is articulated with Architecture Processes (M) and Landscape Architecture Processes (M), one of which is taken concurrently.

### **ARCH 7022 Architecture Project (M)**

9 units - semester 2

Up to 20 hours a week studio work with specialist lectures irregularly spaced

Restriction: M.Arch. (Cswk) students only

Prerequisite: ARCH 7019 Architecture Processes (M)

Corequisite: ARCH 7025B Architecture Masters Dissertation (Part 2)

Incompatible: ARCH 7006A/B Architecture Masters Project

Assessment: final project

This course allows the student to focus a single project through the whole semester. The project must be of moderate to high complexity and the activity progresses from establishment of a conceptual design and theoretical position, to an integrated and developed design response.

The course encourages a range of explorations by the student leading to a definitive final design. The final presentation will display the process, the theoretical and tectonic journey as well as the completed scheme. This presentation demonstrates the students mastery of the major aspects of the academic program

### **ARCH 7025A/B Architecture Masters Dissertation**

6 units - full year

2 hour tutorial/seminar weekly

Restriction: M.Arch. (Cswk) students only

Prerequisite: At least 18 units of Level 1 courses in M.Arch. (Coursework)

Assessment: One seminar paper/presentation and a final essay, report or exhibition articulating and communicating the outcomes of the dissertation investigation

The Masters Dissertation is conducted over both semesters of the final year of the Masters program. It aims to develop the students' critical design thinking, expand their theoretical and historical understanding, and heighten their awareness of the social, ethical, and environmental responsibilities they carry as future architects.

The course involves focused research, presentations, and discussions of selected topics conducted through a series of lectures and seminars. Assessment includes verbal and visual presentations and an illustrated essay.

### **ARCH 7026A Architecture Masters Seminar A (M)**

3 units - semester 1

Up to 3 hours lectures, seminars per week.

Restriction: MArch students only

Corequisite: ARCH 7026B or ARCH 7028A

Assessment: Research and writing exercises 60%, one seminar paper/presentation 40%

This course aims to develop the students' critical design thinking, expand their theoretical and historical understanding, and heighten their awareness of the social, ethical, and environmental responsibilities they carry as future architects. It involves focused research, presentations, and discussions of selected topics conducted through a series of lectures and seminars. Reading and research material will be mainly of scholarly nature.

Assessment will include a student demonstrating written, oral, and visual presentations skills. For students enrolled in the course(s) ARCH 7028A/B Research Thesis A/B the seminar presentation will comprise a thesis proposal.

The course will include an introductory component to research method and scholarly writing. The course may be taught in intensive mode over a 6 week period.

### **ARCH 7026B Architecture Masters Seminar B (M)**

3 units - semester 1

Up to 3 hours seminars, tutorials per week\*

Restriction : MArch students only

Corequisite : ARCH 7026A

Assessment: Major illustrated essay approx 2,500-3,000 words, articulating & communicating the outcomes of research investigations in fields of history & theory of architecture, landscape architecture & urban design - first draft 30%, final submission 70%

This courses aims to further develop the students' critical design thinking, expand their theoretical and historical understanding, and heighten their awareness of the social, ethical, and environmental responsibilities they carry as future architects.

It involves focused research on a selected topic conducted through a series of lectures and seminars.

Reading and research material will be mainly of scholarly nature. Assessment will include a student demonstrating written and visual presentations skills.

\* This course may be taught in intensive mode over 6 weeks.

### **ARCH 7027 Design & Contemporary Theories in Architecture (M)**

3 units - semester 2

Up to 3 hours lectures and studios per week

Restriction : MARCH students only

Corequisite : ARCH 7029

Assessment: Participation in lecture activities 10%, workshop exercises 30%, 2,500-3,000-word essay or digital equivalent 60%

This course introduces students to the current theoretical developments and their design implications in the field of architecture, landscape architecture, and urban design. It involves a series of lectures and workshops by academics and design professionals, presenting the critical issues shaping the debates on and the production of today's constructed environment. This course is structured around a series of public lectures.



The lecture and workshop series will be supported by a course reader to form the focus of the workshops. Reading and research material will be mainly of professional nature. Students can choose to theorise their own design in textual or digital format or write a critical theoretical essay on contemporary design issues.

### **ARCH 7028A/B** **Architecture Masters Seminar A/B (M)**

6 units - full year

Up to 3 hours lectures, supervision per week

Restriction : MARCH and MLARCH invited students only

Corequisite : Concurrent enrolment in ARCH 7028B/ARCH 7028A

Assessment: Exercise on research method & scholarly writing 10%, presentation of seminar paper 10%, & final 8,000 - 10,000 word thesis/report (depending on requirements of research area 80%

This course introduces students to the skills, methods, and practices of advanced and independent research work. It requires students to undertake supervised research into a particular topic over two semesters.

Topics offered will relate to the School's identified research areas that include Design & Culture, Sustainability & Building Performance, Landscape Architecture and Digital Media. Actual topics will depend upon staff availability. The exact nature of the final thesis/report may vary depending on the area of research. In some cases a paper suitable for publication may be prepared.

On completion of the course students will have demonstrated the ability to undertake a sustained research activity and an understanding of the literature and the methods in a specialized research area.

### **ARCH 7029** **Architecture Project (M)**

6 units - semester 2

Up to 8 hours lectures and studios per week

Restriction : MARCH students only

Prerequisite : ARCH 7019

Corequisite : ARCH 7027

Assessment: Preliminary design presentations 20%) final project 80%

A single project, of a student's own choice, which will be of moderate to high complexity. Responses should demonstrate all phases of architectural designing: sketch plans, technical development including one specialized topic, and a final presentation which should show a thorough integration of all major aspects of the academic program.

## **Architecture** **(Digital media)**

### **ARCHDM 7007** **Rules and Contingency in Design with Digital Media**

6 units - semester 1

Contact hours vary - periods of intensive group contact and periods of less frequent individual tutorials

Restriction: Architecture (DM)/ Design in Digital Media students only

Corequisite: ARCHDM 7008 or DESSTDM 7006

Incompatible: ARCHDM 7004, DESSTDM 7001

Assessment: Projects, digital journal

This course highlights and explores the underlying existence of consistent rules in the ways that nature, design and the processes of digital media software all operate. Taking metaphors of 'grammar' and 'vocabulary' from natural language and emphasising the contingency of specific situations, the course shows how an understanding of these phenomena can empower and enrich design practice. It demonstrates how creativity can be recognised and promoted as the informed understanding, modification and breaking of existing rules.

### **ARCHDM 7012** **Imaging and Design**

6 units - semester 2

Up to 6 hours lectures/seminars per week

Restriction: M.Des.Digital Media, Grad.Dip. Design Studies (Digital Media) & M.Comp.Science students only

Assessment: Projects, digital journal

The Imaging and Design studio course provides an opportunity for you to explore and develop your creativity in two dimensional design. You learn the principles- balance, harmony, rhythm, emphasis, contrast, and proportion- that are the foundation of good design, and you learn how these principles interact with the pictorial elements of scale, form, colour, and texture in digital media production.

### **ARCHDM 7013** **Modeling and Animation**

6 units - semester 2

Up to 6 hours lectures/seminars per week

Restriction: M.Des.Digital Media, Grad.Dip. Design Studies (Digital Media) & M.Comp.Science students only

Assessment: Projects, digital journal

Modeling and Animation in three dimensional design seeks to expand your understanding of design theory as it relates to the three dimensional world. Working primarily in three dimensional digital design, we will explore concepts of modularity, sequence and series, relief, contour, structure and symmetry as they relate to the study of forms in nature. We will examine the function of space, volume, mass, plane, and line. Spatial issues will be explored through the solution of design problems. Extensive out-of-class assignments will supplement

studio practice. The main emphasis of this course is the development of critical thinking skills as they apply to three dimensional art forms. As part of the Masters Digital Media Program, this course seeks to engage you in a discourse about form-making and three dimensional thinking. It seeks to foster in your critical thinking skills relevant to gaining a deeper understanding of visual art and design.

## Art History

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### **ARTH 5200 Studies in European Paintings Connoisseurship**

6 units - not offered in 2009

30 hours Art Gallery sessions, lectures, tutorials

Restriction: PG Art History or Curatorial & Museum Studies students

Available for Non-Award Study

This course will look critically at the development of connoisseurship in Europe, concentrating on the ideas and techniques of analysis and classification adopted by Leon Battista Alberti, Giorgio Vasari, Roger de Piles, William Hogarth, Jonathan Richardson, Giovanni Morelli, Heinrich Wölfflin, Max J. Friedlander, Bernard Berenson, Alois Riegl and Richard Offner. Students will be encouraged to exercise their own eye on as many original works of art as possible from the collection of the Art Gallery of South Australia.

### **ARTH 5201 Studies in Australian Colonial Art**

6 units - not offered in 2009

30 hours Art Gallery sessions, lecture, tutorials

Restriction: PG Art History or Curatorial & Museum Studies students

Available for Non-Award Study

The course examines the arts of colonial Australia from 1788 to 1901. It draws on the extensive collection of colonial works in the Gallery's collection, paying particular attention to early paintings and works on paper by John Lewin, Thomas Bock, John Glover, Eugene von Guerard, William Strutt, Alexander Schramm, S.T. Gill, and others. Some attention will also be paid to the decorative arts of colonial Australia, and to the early history of photography. The representation of Indigenous Australians by colonial artists will also be discussed, as well as issues such as the role and function of art for developing colonies.

### **ARTH 5202 Studies in Asian Art**

6 units - not offered in 2009

30 hours Art Gallery sessions, lectures, tutorials

Restriction: PG Art History or Curatorial & Museum Studies students

Available for Non-Award Study

This course surveys the history of religious art in Asia over the past two millennia. The course focus will shift each year according to the current exhibition and display program of the Art Gallery of South Australia to variously include the art of Buddhist, Hindu and Jain traditions. The

evolution of aesthetics and iconography in India and its wider influence in the rest of Asia and the context of the philosophy and practice of these religions will be explored and discussed.

### **ARTH 5203 Studies in Australian Art**

6 units - semester 2

30 hours Art Gallery sessions, lectures, tutorials

Restriction: PG Art History or Curatorial & Museum Studies students

Available for Non-Award Study

The course focuses around the large collection of Australian art at the Art Gallery of South Australia. Discussion and analysis of the art will be in terms of the principal issues underpinning Australian art and recent re-readings of particular works. Topics to be explored include colonial art, later nineteenth-century nationalist and Federation art, the rise of modernism particularly among women artists, abstraction, minimalism, conceptualism, the emergence of Central and Western Desert painting and trends in contemporary Australian art.

### **ARTH 5204 Studies in European Art since the Renaissance**

6 units - semester 1

30 hours Art Gallery sessions, lectures, tutorials

Restriction: PG Art History or Curatorial & Museum Studies students

Available for Non-Award Study

In 'hands-on' sessions in the Art Gallery and in lectures, the course focuses on the fascinating history of European Art from the early Renaissance through to the post impressionist era concentrating on the Gallery's collection of paintings, drawings, prints, sculpture and decorative arts. This course looks at the High Renaissance, Baroque and Mannerist art, Neo-Classical and Romantic art, Realist and Impressionist art and nineteenth century British art. The course also looks at recent theoretical approaches to Art History which affect the discourses of art.

### **ARTH 5208 Studies in Contemporary Art**

6 units - not offered in 2009

30 hours Art Gallery sessions, lectures, tutorials

Restriction: PG Art History or Curatorial & Museum Studies students

Available for Non-Award Study

The course looks at contemporary art as 'cutting edge' art, how its origins are to be found in modernist notions of the avant garde and on recent national and international developments including installation, new media, performance art, the resilience of painting and the place of Indigenous art in the contemporary scene and differing genres of arts writing. The course will focus around contemporary work in the collection of the Art Gallery of South Australia.

### **ARTH 5209** **Studies in Australian Indigenous Art**

6 units - not offered in 2009

30 hours Art Gallery sessions, lectures, tutorials

Restriction: PG Art History or Curatorial & Museum Studies students

Available for Non-Award Study

The course explores the vast diversity of historical and contemporary Indigenous art practice, with a focus on several painting traditions including bark painting from various parts of Arnhem Land and the Kimberley, Central and Western Desert dot painting, and watercolours from Hermannsburg in Central Australia. Other aspects covered include Indigenous decorated and woven objects and contemporary urban Aboriginal prints and photographs. The course draws heavily on the comprehensive Indigenous collection of the Art Gallery of South Australia. Key anthropological, ethnographic and philosophical issues arising from the collecting and display of Indigenous art and objects in museums and galleries are also discussed.

### **ARTH 5210** **Studies in British Art**

6 units - not offered in 2009

30 hours Art Gallery sessions, lectures, tutorials

Restriction: PG Art History or Curatorial & Museum Studies students

Available for Non-Award Study

This course focuses on the art of England, Scotland, Wales, Ireland and other parts of the British Isles from the reign of Henry VIII to the reign of Queen Victoria, concentrating on the rise of British portraiture in the era of the Flemish expatriate artist Anthony van Dyck; the invention of the Conversation Piece; the adaptation in Britain of the Classical landscape tradition, particularly by Richard Wilson and his followers; and the evolution of the Victorian art world through the mid to late nineteenth century.

### **ARTH 5211** **Studies in Decorative Art and Design**

6 units - not offered in 2009

30 hours Art Gallery sessions, lectures, tutorials

Restriction: PG Art History or Curatorial & Museum Studies students

Available for Non-Award Study

This course will focus on selected developments in British and Australian decorative arts. The implications of the term 'decorative' will be considered as well as the distinctive position of the decorative arts in the history of the modern museum. The British component of the course will focus on objects in the collection of the Art Gallery of South Australia that relate to William Morris and the Arts & Crafts Movement. The Australian component will cover all aspects of the decorative arts in Australia since European settlement

### **ARTH 5212** **Studies in Japanese Art**

6 units - semester 1

30 hours Art Gallery sessions, lectures, tutorials

Restriction: PG Art History or Curatorial & Museum Studies students

Available for Non-Award Study

The course encompasses the history of Japanese Art and a study of its distinctive culture and aesthetics. It focuses around works in the collection of the Art Gallery of South Australia, including major works of sculpture, screen painting, wood-block prints, ceramics and metalwork including Shinto and Buddhist sculptures, ukiyo-e prints by Hiroshige, Hokusai and others, sword mounts of the Samurai and ceramics by Shoji Hamada and his circle. Attention will also be focused on issues surrounding the intersection between Japanese and Western Art and trends in modern and contemporary Japanese art.

### **ARTH 5213** **Studies in South East Asian Art**

6 units - not offered in 2009

30 hours Art Gallery sessions, lectures, tutorials

Restriction: PG Art History or Curatorial & Museum Studies students

Available for Non-Award Study

This course surveys the development of Southeast Asian aesthetics with a focus on the ways that ceramics and textiles have articulated the region's cultural and spiritual identity. The growth of Vietnamese, Thai, and Cambodian ceramic production will be explored as will the role of high-fired pottery documenting social history and cultural exchange in Southeast Asia. The study in textiles concentrates mainly on Indonesia and East Timor where textile artists have transformed designs imported into the archipelago from India and China into a rich indigenous art tradition. The course draws on the Gallery's rich collection and may also include a field trip to Southeast Asia.

### **ARTH 5214** **Studies in Modern Art**

6 units - not offered in 2008

30 hours Art Gallery sessions, lectures, tutorials

Restriction: PG Art History or Curatorial & Museum Studies students

Available for Non-Award Study

This course focuses on the origins of modern art in Paris and London, the meaning of 'modern' art and on the main modern art movements of the twentieth century including dadaism and surrealism, cubism, expressionism, futurism, constructivism, abstraction, abstract expressionism and the moments of decline in modern art: minimalism and conceptualism. Attention will also focus on the shift from Paris to New York as the cultural centre and how modern art was taken up in Australia. Much of the course will be shaped around works in the collection of the Art Gallery of South Australia.

## **ARTH 5520** **Research Project in Art History F/T**

12 units - semester 1 or 2

Restriction: M.A.(Studies in Art History) students

Assessment: Dissertation/report up to 18000 words or equivalent

The dissertation/exhibition project must be up to 18,000 words in length, or equivalent. It can be a thesis by research or a project. A project might take the form of working to a brief negotiated jointly with the program coordinator and the Gallery. For example, it might comprise the work required to mount an exhibition, prepare a catalogue, feature a particular part of the collection or research work in the Art Gallery's collection. Depending on the proposed area of interest, one or two supervisors may be allocated to supervise the dissertation (by thesis or project) and they may be from the University, the Gallery or both. There may be instances where an outside supervisor is co-opted.

## **ARTH 5521A/B** **Research Project in Art History P/T**

12 units - full year

Restriction: M.A.(Studies in Art History) students

Assessment: Dissertation/report up to 18000 words or equiv

The dissertation/exhibition project must be up to 18,000 words in length, or equivalent. It can be a thesis by research or a project. A project might take the form of working to a brief negotiated jointly with the program coordinator and the Gallery. For example, it might comprise the work required to mount an exhibition, prepare a catalogue, feature a particular part of the collection or research work in the Art Gallery's collection. Depending on the proposed area of interest, one or two supervisors may be allocated to supervise the dissertation (by thesis or project) and they may be from the University, the Gallery or both. There may be instances where an outside supervisor is co-opted.

## **ARTH 5522** **Curatorial and Museum Studies A**

6 units - semester 1 or 2

30 hours per semester of Art Gallery sessions, lectures, tutorials

Restriction: M.A.(Curatorial & Museum Studies) students only

Assessment: 8000 - 9000 word research project

This subject will focus on the role and function of museums, the nature and purpose of collections, the history and philosophy of museums and their collections, cultural issues of collecting, collection policies and conservation issues and practice. Students will examine these issues theoretically, and within the context of galleries and museums and apply them in a research project.

## **ARTH 5523** **Curatorial and Museum Studies B**

6 units - semester 1 or 2

30 hours per semester of Art Gallery sessions, lectures, tutorials

Restriction: M.A.(Curatorial & Museum Studies) students only

Assessment: 8000 - 9000 word research project

This course looks at the range of issues involved in the operations of an art museum in a range of areas including collection management, cataloguing, acquisition of works, exhibition proposals and development, installation and public programs. Students will examine these issues within the context of galleries and museums including a 20 day internship in a gallery or museum.

# **Biometry**

## **BIOMET 7000WT** **Research Methodology and Experimentation**

3 units - semester 2

5 x 8 hour days in Mid Year Break

Prerequisite: Degree in Agricultural Science or Science

Assumed Knowledge: First program in Biometry or Intro.Statistics

Assessment: Written assignment, final written exam

The Statistical Package GENSTAT 5 for Windows is introduced and utilised extensively throughout the course. Revision of basic regression and analysis of variance methodology. A selection of topics from the following: extension of regression (both linear and non linear); design and analysis of complicated multi-factor experiments; Latin squares; analysis of covariance; generalised linear models (including probit analysis and logistic regression); multiple comparisons.

As part of the course a selection of case studies will be discussed to illustrate the important steps involved during a research program (ie development of aims, setting of hypotheses, design of the experiment, collection of data, analysis and interpretation of results).

# **Biostatistics**

## **BIOSTATS 6000EX** **Epidemiology**

3 units - semester 1 or 2

Restriction: G.Cert, G.Dip, Masters in Biostatistics students

Assessment: Assignments - functions 20%, calculus 40%, matrices & numerical methods 40%

On completion of this course students should be familiar with the major concepts and tools of epidemiology, the study of health populations, and should be able to judge the quality of evidence in health-related research literature. Topics include: historical developments in epidemiology; sources of data on mortality and morbidity; disease rates and standardisation; prevalence and incidence; life expectancy; linking exposure and disease (eg relative risk, attributable risk); main types of study design-case series, ecological studies, cross-sectional surveys, case-control studies, cohort or follow-up studies, randomised controlled trials; sources of error (chance, bias, confounding); association and causality; evaluating published papers; epidemics and epidemic investigation; surveillance; prevention; screening; the role of epidemiology in health services research and policy.

## **BIOSTATS 6001EX**

### **Mathematical Background for Biostatistics**

3 units - semester 1 or 2

Restriction: Grad Cert, Grad Dip and Masters in Biostatistics students

Assessment: Assignments - functions 20%, calculus 40%, matrices & numerical methods 40%

On completion of this course students will be able to follow the mathematical demonstrations and proofs used in biostatistics at Masters degree level, and to understand the mathematics behind statistical methods introduced at that level. The intention is to allow students to concentrate on statistical concepts in subsequent courses, and not be distracted by the mathematics employed. Content includes: basic algebra and analysis; exponential functions; calculus; series, limits, approximations and expansions; matrices and numerical methods.

## **BIOSTATS 6002EX**

### **Data Management and Statistical Computing**

3 units - semester 1 or 2

Restriction: Grad Cert, Grad Dip, Masters in Biostatistics students

Assessment: 3 written assignments (15%, 15%, 30%), at-home exam 40%

The aim of this course is to introduce students to essential concepts and tools required for the management and analysis of data using modern statistical software. Data management principles and concepts are developed using relational database software (Microsoft Access). Data manipulation, descriptive analyses and interpretation are introduced using SAS and Stata statistical software. Students will also acquire skills in data display, summary presentation and pattern recognition using these tools.

Module 1: Data Management Concepts; Module 2: Introduction to Stata and SAS; Module 3: Data Management Using Stata and SAS.

## **BIOSTATS 6003EX**

### **Probability and Distribution Theory**

3 units - semester 1 or 2

Restriction: Grad Cert, Grad Dip, Master in Biostatistics students

Prerequisite: BIOSTATS 6001EX

Assessment: 2 written assignments, 40% each, submission of selected practical exercises 20%

This course will focus on applying the calculus-based techniques learned in Mathematical Background for Biostatistics to the study of probability and statistical distributions. These two courses, together with the subsequent Principles of Statistical Inference course, will provide the core prerequisite mathematical statistics background required for the study of later courses in the Graduate Diploma or masters degree. This course begins with the study of probability, random variables, discrete and continuous distributions, and the use of calculus to obtain expressions for parameters of these distributions such as the mean and variance. Joint distributions for multiple random variables are introduced together with the important concepts of independence, correlation and covariance, marginal and conditional

distributions. Techniques for determining distributions of transformations of random variables are discussed. The concept of the sampling distribution and standard error of an estimator of a parameter is presented, together with key properties of estimators. Large sample results concerning the properties of estimators are presented with emphasis on the central role of the normal distribution in these results. General approaches to obtaining estimators of parameters are introduced. Numerical simulation and graphing with Stata is used throughout to demonstrate concepts.

## **BIOSTATS 6004EX**

### **Design of Randomised Controlled Trials**

3 units - semester 2

Restriction: Grad Cert, Grad Dip and Master in Biostatistics students

Prerequisite: BIOSTATS 6000EX, BIOSTATS 6001EX

Assessment: 3 written assignments (30%, each, 30%, 40%)

The aim of this course is to enable students to understand and apply the principles of design and analysis of experiments, with a particular focus on randomised controlled trials (RCTs), to a level where they are able to contribute effectively as a statistician to the planning, conduct and reporting of a standard RCT. Topics include: principles and methods of randomisation in controlled trials; treatment allocation, blocking, stratification and allocation concealment; parallel, factorial and crossover designs including n-of-1 studies; practical issues in sample size determination; intention-to-treat principle; phase I dose finding studies; phase II safety and efficacy studies; interim analyses and early stopping; multiple outcomes/endpoints, multiple tests and subgroup analyses, including adjustment of significance levels and p-values; reporting trial results and use of the CONSORT statement.

## **BIOSTATS 6005EX**

### **Principles of Statistical Inference**

3 units - semester 1 or 2

Restriction: Grad Cert, Grad Dip and Masters in Biostatistics students

Prerequisite: BIOSTATS 6001EX, BIOSTATS 6003EX

Assessment: 2 written assignments 35% each, submission of selected practical exercises 30%

The aim of this course is to provide a strong mathematical and conceptual foundation in the methods of statistical inference, with an emphasis on practical aspects of the interpretation and communication of statistically based conclusions in health research. Content includes: review of the key concepts of estimation, and construction of Normal-theory confidence intervals; frequentist theory of estimation including hypothesis tests; methods of inference based on likelihood theory, including use of Fisher and observed information and likelihood ratio; Wald & score tests; an introduction to the Bayesian approach to inference; an introduction to distribution-free statistical methods.

## **BIOSTATS 6006EX**

### **Linear Models**

3 units - semester 2

Restriction: Grad Cert, Grad Dip, Master in Biostatistics students

Prerequisite: BIOSTATS 6000EX, BIOSTATS 6001EX, BIOSTATS 6003EX, BIOSTATS6005EX

Corequisite: program coordinator permission is required for taking BIOSTATS 6000EX & BIOSTATS 6006EX simultaneously

Assessment: Assignments 80% (two case study assignments 35% & 45% respectively), submission of selected practical exercises 20%, online quizzes 5%

The aim of this course is to enable students to apply methods based on linear models to biostatistical data analysis, with proper attention to underlying assumptions and a major emphasis on the practical interpretation and communication of results. The content includes: the method of least squares; regression models and related statistical inference; flexible nonparametric regression; analysis of covariance to adjust for confounding; multiple regression with matrix algebra; model construction and interpretation (use of dummy variables, parameterisation, interaction and transformations); model checking and diagnostics; regression to the mean; handling of baseline values; the analysis of variance; variance components and random effects.

## **BIOSTATS 6007EX**

### **Categorical Data and Generalised Linear Models**

3 units - semester 2

Restriction: Grad Cert, Grad Dip and Master in Biostatistics students

Prerequisite: BIOSTATS 6000EX, BIOSTATS 6001EX, BIOSTATS 6003EX, BIOSTATS6005EX

Corequisite: BIOSTATS 6006EX

Assessment: 2 written assignments, each worth 20%, practical exercises 54% and contribution to online discussion 6%

The aim of this course is to enable students to use generalised linear models (GLMs) and other methods to analyse categorical data with proper attention to the underlying assumptions. There is an emphasis on the practical interpretation and communication of results to colleagues and clients who may not be statisticians. The content includes: introduction to and revision of conventional methods of contingency tables especially in epidemiology: odds ratios and relative risks, chi-squared tests for independence, Mantel-Haenszel methods for stratified tables, and methods for paired data. The exponential family of distributions; generalised linear models (GLMs), and parameter estimation for GLMs. Inference for GLMs-including the use of score, Wald and deviance statistics for confidence intervals and hypothesis tests, and residuals. Binary variables and logistic regression models-including methods for assessing model adequacy. Nominal and ordinal logistic regression for categorical response variables with more than two categories. Count data, Poisson regression and log-linear models.

## **BIOSTATS 6008EX**

### **Survival Analysis**

3 units - semester 1

Restriction: Grad Cert, Grad Dip & Master of Biostatistics students

Prerequisite: BIOSTATS 6000EX, BIOSTATS 6001EX, BIOSTATS 6003EX, BIOSTATS 6006EX

Assessment: 3 written assignments 22.5% each, online participation 10%, final at- exam 22.5%

The aim of this course is to enable students to analyse data from studies in which individuals are followed up until a particular event occurs, e.g. death, cure, relapse, making use of follow-up data also for those who do not experience the event, with proper attention to underlying assumptions and a major emphasis on the practical interpretation and communication of results. The content includes: Kaplan-Meier life tables; logrank test to compare two or more groups; Cox's proportional hazards regression model; checking the proportional hazards assumption; time-dependent covariates; multiple or recurrent events; sample size calculations for survival studies.

## **BIOSTATS 6009**

### **Workplace Project Portfolio A**

3 units - semester 1 or 2

Restriction: Grad Dip and Master in Biostatistics students

Prerequisite: Minimum of 4 courses, including BIOSTATS 6002EX, BIOSTATS 6006EX

Assessment: Portfolio

The aim of this course is that the student gains practical experience, usually in workplace settings, in the application of knowledge and skills learnt during the coursework of the masters program.

The student will usually provide evidence of having met this goal by presenting a portfolio or thesis made up of a preface and project reports. An outline of options for the structure of this course, including supervision and assessment requirements, is available at [www.bca.edu.au/student\\_info.htm](http://www.bca.edu.au/student_info.htm) (see Workplace Project Portfolio guidelines).

## **BIOSTATS 6010**

### **Workplace Project Portfolio B**

3 units - semester 1 or 2

Restriction: Grad Dip, Master in Biostatistics students

Prerequisite: Minimum of 4 courses, including BIOSTATS 6002EX, BIOSTATS 6006EX

Assessment: Portfolio

The aim of this course is that the student gains practical experience, usually in workplace settings, in the application of knowledge and skills learnt during the coursework of the masters program. The student will usually provide evidence of having met this goal by presenting a portfolio or thesis made up of a preface and project reports. An outline of options for the structure of this course, including supervision and assessment requirements, is available at [www.bca.edu.au/student\\_info.htm](http://www.bca.edu.au/student_info.htm) (see Workplace Project Portfolio guidelines).

## **BIOSTATS 6011EX**

### **Bioinformatics**

3 units - semester 2

8-10 hours total study time per week

Restriction: Grad Cert, Grad Dip, Master in Biostatistics students

Prerequisite: Epidemiology, Mathematical Background for Biostatistics, Principles of Statistical Inference, Linear Models, Categorical Data and Generalised Linear Models

Assessment: 4 assignments 15% each, final at-home exam 40%

Bioinformatics addresses problems related to the storage, retrieval and analysis of information about biological structure. This unit will provide a broad-ranging study of this application of quantitative methods in biology. Topics studied will be selected from: data sources, data retrieval, quantitative methods in genome science, proteome science, population genetics, evolutionary genetics and animal and plant breeding. A suitable preparation in statistics and in biology is strongly recommended.

Core content of the course: Basic notions in biology; basic principles of population genetics; The analysis of one DNA or protein sequence; The analysis of multiple DNA or protein sequences; Data sources and retrieval - the NCBI and BLAST ; Hidden Markov Models and their applications; Evolutionary models; Phylogenetic tree estimation; Functional genomics; Proteomics.

## **BIOSTATS 6012EX**

### **Longitudinal & Correlated Data**

3 units - semester 1

Restriction: Grad Cert, Grad Dip and Master in Biostatistics students

Prerequisite: BIOSTATS 6000EX, BIOSTATS 6001EX, BIOSTATS 6003EX, BIOSTATS 6005EX, BIOSTATS 6006EX, BIOSTATS 6007EX

Assessment: Practical exercises, in 4 parts & including component for online group 20% , discussion, & 2 written assignments 40%

The aim of this course is to enable students to apply appropriate methods to the analysis of data arising from longitudinal (repeated measures) epidemiological or clinical studies, and from studies with other forms of clustering (cluster sample surveys, cluster randomised trials, family studies) that will produce non-exchangeable outcomes. The content includes: paired data; the effect of non-independence on comparisons within and between clusters of observations; methods for continuous outcomes: normal mixed effects (hierarchical or multilevel) models and generalised estimating equations (GEE); role and limitations of repeated measures ANOVA; methods for discrete data: GEE and generalised linear mixed models (GLMM); methods for count data.

## **BIOSTATS 6013EX**

### **Advanced Clinical Trials**

3 units - semester 2

Restriction: Grad Cert, Grad Dip, Master in Biostatistics students

Prerequisite: BIOSTATS 6000EX, BIOSTATS 6001EX, BIOSTATS 6003EX, BIOSTATS 6004EX, BIOSTATS 6005EX, BIOSTATS 6006EX

Assessment: 3 written assignments (25%, 25%,10%), at-home exam 40%

This elective unit extends and enhances the concepts developed in Design of Experiments and Randomised Clinical Trials. On completion, students have the

knowledge and skills required at an advanced professional level to design and analyse clinical trials, including cross-over designs and equivalence trials, and to identify and implement statistical methods for monitoring and reporting, with appropriate knowledge of regulatory requirements. Topics to be covered include: methods in RCTs for determining stopping rules for interim analyses (O'Brien-Fleming, Peto), spending functions, stochastic curtailment; statistical principles encountered in relation to aspects of regulatory guidelines (ICH, HAD, EMEA), and related to reports prepared for data safety and monitoring committees (DSMC); design and analysis of cross-over trials (period effects, interactions); equivalence and non-inferiority trials; problems of defining and using surrogate endpoints as alternatives to direct clinical outcomes.

## **BIOSTATS 6014EX**

### **Bayesian Statistical Methods**

3 units - semester 2

Restriction: Grad Cert, Grad Dip, Master in Biostatistics students

Prerequisite: BIOSTATS 6000EX, BIOSTATS 6001EX, BIOSTATS 6003EX, BIOSTATS 6005EX, BIOSTATS 6006EX, BIOSTATS 6007EX

Assessment: 2 written assignments 30% each, submission of selected practical exercises 40%

The aim of this course is to achieve an understanding of the logic of Bayesian statistical inference, i.e. the use of probability models to quantify uncertainty in statistical conclusions, and acquire skills to perform practical Bayesian analysis relating to health research problems. Topics will include simple one-parameter models with conjugate prior distributions; standard models containing two or more parameters, including specifics for the normal location-scale model; the role of non-informative prior distributions; the relationship between Bayesian methods and standard 'classical' approaches to statistics, especially those based on likelihood methods; computational techniques for use in Bayesian analysis, especially the use of simulation from posterior distributions, with emphasis on the WinBUGS package as a practical tool; application of Bayesian methods for fitting hierarchical models to complex data structures.

## **BIOSTATS 6015EX**

### **Health Indicators & Health Surveys**

3 units - semester 1

Restriction: Grad Cert, Grad Dip, Master in Biostatistics students

Corequisite: BIOSTATS 6001EX

Assessment: 4 written assignments (2 x 20%, 2 x 26%), contribution to online discussions 8%

On completion of this course students should be able to derive and compare population measures of mortality, illness, fertility and survival, be aware of the main sources of routinely collected health data and their advantages and disadvantages, and be able to collect primary data by a well-designed survey and analyse and interpret it appropriately. The content includes: routinely collected health-related data; quantitative methods in demography, including standardisation and life tables; health differentials; design and analysis of population health surveys including the roles of stratification, clustering and weighting.

## **BIOSTATS 6016EX** **Clinical Biostatistics**

3 units - semester 1

Restriction: Grad Cert, Grad Dip, Master in Biostatistics students only

Prerequisite: BIOSTATS 6000EX, BIOSTATS 6001EX, BIOSTATS 6003EX

Corequisite: BIOSTATS 6005EX

Assessment: Assignments 92% (4 written assignments each worth 23%) and 8% for online discussions

The aim of this course is to enable students to use correctly statistical methods of particular relevance to evidence-based health care and to advise clinicians on the application of these methods and interpretation of the results. The content includes: clinical agreement (Kappa statistics, Bland-Altman agreement method, intraclass correlation); diagnostic tests (sensitivity, specificity, predictive values, ROC curves, likelihood ratio); statistical process control (special and common causes of variation, Shewhart CUSUM and EWMA charts); and systematic reviews (process, estimating treatment effect, assessing heterogeneity, publication bias).

## **Business**

### **BUSINESS 7000** **Social Challenges to Global Business**

3 units - semester 1

3 hour seminar per week

Assessment: Mix of student participation, student power-point presentation, business report 70%; final exam 30%

In many industries today a sustainable return on investment requires taking risks - exploring new markets and dealing with complex social and environmental challenges. Unfortunately, many modern business leaders and executives are ill equipped to face this new and ever-changing environment. In this course you will hear directly from successful business leaders, experts in international trade and community leaders about how they understand and deal with the complex problems of labour disputes, the environment, corruption, dire poverty and global security issues in the post September 11 world. The course provides a range of strategies to successfully handle these issues, maintain a positive organisational reputation and contribute to the solution. There is the opportunity to discuss ethical issues with leading business people, experts on labour rights, the environment and global poverty. The course will allow you to assess the importance of corporate social responsibility and triple bottom line accounting - financial, social and environmental.

### **BUSINESS 7001** **International Challenges for Global Business**

6 units - semester 1

3 hour seminar

Restriction: Faculty of Humanities & Social Sciences students only

Assessment: Mix of student participation, student power-point presentation, business report 70%; final exam 30%

In many industries today a sustainable return on investment requires taking risks - exploring new markets and dealing with complex social and environmental challenges. Unfortunately, many modern business leaders and executives are ill equipped to face this new and ever-changing environment. In this course you will hear directly from successful business leaders, experts in international trade and community leaders about how they understand and deal with the complex problems of labour disputes, the environment, corruption, dire poverty and global security issues in the post-September 11 world. The course provides a range of strategies to successfully handle these issues, maintain a positive organisational reputation and contribute to the solution. There is the opportunity to discuss ethical issues with leading business people, experts on labour rights, the environment and global poverty. The course will allow you to assess the importance of corporate social responsibility and triple bottom line accounting - financial, social and environmental.

## **Commerce**

### **COMMERCE 7021** **Commercial Law and Information Systems (M)**

3 units - semester 1 or 2

2 hour lecture and 1 hour tutorial per week

Assumed Knowledge: ACCTING 7000 Accounting and Decision Making (M) or ACCTING 7019 Accounting Concepts and Methods (M)

Assessment: Assignment and exam as determined at first lecture

This course is designed to provide students with an understanding of the Australian legal framework for business entities, particularly in relation to their commercial transactions. The course also introduces students to business information systems, including roles and types of information systems, software and technological developments.

### **COMMERCE 7033** **Quantitative Methods (M)**

3 units - semester 1 or 2

3 hour seminar per week

Assessment: Assignments & exam as determined at first class

This course aims to impart a mastery of a toolkit which includes statistical inference and causal-theoretical multiple linear regression analysis whilst also serving as an introduction to sales forecasting and time series econometrics. Roughly equal emphasis is placed on (i) theory, (ii) applications, and (iii) specialised econometric and statistical software (EViews and SPSS). A vast array of data sets are studied with forensic accounting, finance, marketing, management and other business related applications emphasised. This course also aims to promote a critical perspective on the use of statistical and econometric information.



## **COMMERCE 7036** **Knowledge Management & Measurement (M)**

3 units - semester 1

3 hour seminar per week

Assumed Knowledge: at least 2 courses at specialisation level

Assessment: Assignments & exam as determined at first class

The course explores the emerging art and science of managing knowledge and measuring intellectual capital in modern organisations. Topics: the parameters of knowledge management, the knowledge-based economy, paradigms and principles for knowledge management, implementation and electronic tools for knowledge management, knowledge measurement and valuation.

## **COMMERCE 7037** **Research Methodology (M)**

3 units - semester 1

3 hour seminar per week

Assumed Knowledge: at least 2 courses at specialisation level

Assessment: Assignments & presentations culminating in the presentation of a research proposal to the School of Commerce

This course is designed for students to fulfil the following learning objectives: Understand the philosophies, concepts and elements of designing a research inquiry; Appreciate alternative approaches to research in commerce and the social sciences, with emphasis on deductive empirical research; Have knowledge of methods of collecting, measuring and in a broad structural sense, analysing, quantitative and qualitative data; Be familiar with designing and administering field surveys, laboratory experiments, case study, archival analysis and action-based approaches to research.

Topics covered in this will include: Science, research and theory; The research process and the research proposal; Deductive empirical research; Constructs, variables, hypotheses and empirical schema; Deductive empirical research: measurement and sampling; Inductive qualitative research: Design issues, concept formulation, methods of analysis; Field surveys and questionnaires; Experimental designs; Observational studies: case studies and interviews; Non-reactive research: content analysis and secondary data mining; Other research methods: Historical-comparative research, action research; Presentation of a research proposal. Students will engage in interactive discussion of set questions and presentations of reviews of methodologies in selected research articles. A full research proposal for their dissertation will be presented at an academic staff seminar; students will use feedback from this seminar in the final write-up of their proposal.

## **COMMERCE 7041** **Business Communications (M)**

3 units - semester 1 or 2

3 hours seminar per week

Assessment: Assignments and exam as determined at first class

This course aims to prepare students with the specialist academic literacy skills required of the Master of

Commerce program, while recognising and building on students' existing knowledge and skills. It develops students' confidence and values the identities and wealth of resources which they bring to the course and learning environment. It also engages students in learning about their own learning styles and strategies, enhancing their effectiveness in the coursework by providing opportunities for practice in efficient reading and critical thinking, research and academic writing skills, interactive discussion, oral presentation and listening skills. This course will also focus on students developing the communication skills required in the workplace.

## **COMMERCE 7100** **Qualitative Methods (M)**

3 units - semester 1

Assessment: As advised in the first class

This course is designed for students to fulfil the following learning objectives; Understanding the characteristics, roles and importance of qualitative research; Achieve a working familiarity with a range of qualitative methods; Acquire skills in qualitative data collection and analysis methods, including use of NVivo; Develop the ability to select, justify and execute qualitative methods appropriate to central research questions. Topics covered in this course may include: Qualitative research features and approaches; Theoretical traditions in qualitative research; The interface between qualitative and quantitative research; Qualitative data collection; Qualitative data analysis; The theory and application of a range of qualitative methodologies which may include components such as field based case study, interview methods, historical method, ethnography, grounded theory, action research and hermeneutical method.

## **COMMERCE 7104** **Advanced Theory in Management (M)**

3 units - semester 1 or 2

2 hour seminar per week

Assessment: As advised in the first class

This course is designed to fulfil the following student learning objectives: Gain an in-depth understanding of some of the main theoretical and research perspectives that have contributed to knowledge of management; Investigate some of the important debates to which theorising about these different issues has given rise; Explore the implications of these debates for both management research and management practice; Become familiar with academic publications in management; Develop an ability to critically analyse and evaluate such publications; Improve oral and written communications skills. Generally, the course aims to give students a greater familiarity with theoretical and philosophical perspectives used in management research in the current or recent management literature. Topics arise throughout the course from theoretical and research perspectives that have influenced (and continue to influence) scholarly thinking about issues of central importance to the practice of management.

This is essentially a readings-based course in which students will critically review scholarly research articles each week in advance. Participation marks will be awarded for demonstration of effective reading and understanding the arguments presented.

### **COMMERCE 7105 Dissertation (M)**

12 units - semester 2

Assumed Knowledge: Completion of twenty four units in the program.

Assessment: Dissertation

This course aims to develop in students a capacity to work independently under the guidance of their supervisor, to carry out research and to report the results in a formal document that demonstrates the ability to argue the case. Each student will prepare under supervision an individual research dissertation that exhibits original investigation, analysis and interpretation. Appointments with student and supervisor to be arranged, generally at least one hour per week of semester.

The dissertation will be assessed by two examiners. Examiners will be selected from the University of Adelaide, other universities or from industry. Any external examiners should normally have substantial research experience in the area under investigation and be nationally recognised in the field. A student's supervisor may not be appointed as an examiner. The identity of the examiners should not be made known to the student.

### **COMMERCE 7106 Advanced Readings (M)**

3 units - semester 1 or 2

Assessment: As advised in the first class

The primary objectives of this course are that students will: become familiar with their intended area of research; gain a general overview of the research area and undertake a critical assessment of the relevant literature; gain skills in preparing an in-depth literature review and presenting a research paper; become familiar with accessing and searching electronic and other databases of business literature; compile comprehensive reference lists based on their search of literature; write a clear and concise review of the literature relevant to their intended research project; explain in writing the basic purpose and significance of their research project in the context of past work in the field.

Students will need to discuss possible research topics with appropriate staff members to identify a supervisor. References, resources and the reading material will be specific to a project and will need to be discussed with the research supervisor. -Seminars and workshops will be conducted covering library search techniques, referencing, and preparing and presenting a research proposal.

## **Commercial Law**

### **COMMLAW 7011 Corporate Law (M)**

3 units - semester 1 or 2

2 hour lecture and 2 hour tutorial per week

Assumed Knowledge: ACCTING 7012

Assessment: Assignments and exam as determined at first class

This course is designed to provide students with a basic understanding of key aspects of the law relating to business structures including sole traders, partnerships, syndicates, joint ventures, trusts and corporations. The majority of the course is devoted to an examination of corporate law. This course aims to assist students to identify key relevant issues in differing commercial scenarios. It will encompass both theory and practical implementation of the main concepts covered. The course also incorporates selected topics where students are required to provide a critical analysis of the law.

### **COMMLAW 7013 Income Taxation (M)**

3 units - semester 1 or 2

3 hour seminar per week

Prerequisite: COMMLAW 7011

Assessment: Assignment, exam as determined at first class

The objective of the course is to help students understand the fundamental concepts of income tax law. Topics: jurisdiction to tax, assessable income, including capital gains and losses, non-assessable income, deductions, tax accounting, tax entities, anti-avoidance, and tax administration.

### **COMMLAW 7016 Business Taxation & GST (M)**

3 units - semester 2

3 hour seminar per week

Prerequisite: COMMLAW 7013

Assessment: Assignments, exam as determined at first class

The objective of the course is to help students understand the law and application of key types of business tax and the goods and services tax. The course aims to build upon the concepts covered in Income Tax Law (M) and this course or an equivalent undergraduate income tax law course 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.

## Computer Science

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### COMP SCI 7000 Software Architecture

3 units - Not offered in 2008

2 lectures, 4 hours practical work per week

Available for Non-Award Study

Assessment: Exam and/or Assignments

Topics in Software Architecture as approved by Head of School.

### COMP SCI 7005 Adaptive Business Intelligence

3 units - semester 2

2 lectures, 4 hours practical work per week

Available for Non-Award Study

Assumed Knowledge: Java, program design, discrete Mathematics

Incompatible: Cannot be counted with COMP SCI 7009 M

Assessment: Exam and/or assignments

Adaptive Business Intelligence (ABI) is the discipline of using prediction and optimization techniques to build self-learning “decisioning” systems. ABI fundamentals: philosophy of ABI, methodology, techniques, adaptive real-life software, and applications of ABI systems. Optimization techniques: Local Hill-Climber, Stochastic Hill-Climber, Simulated Annealing, Tabu Search, Evolutionary Algorithm, Constraint Handling, Multi-Objective Optimization, Adaptability. Prediction techniques: Data Preparation, Fuzzy Logic, Neural Networks, Genetic Programming, Ant Systems, Swarm Intelligence, Agent-Based Modeling, Co-Evolution, Adaptability. Hybrid Systems: Hybrid Prediction Systems, Hybrid Optimization Systems, Adaptability. Real-life ABI case studies.

### COMP SCI 7006 Programming Techniques

3 units - semester 1

2 lectures, 4 hours practical work per week, 1 tutorial per fortnight

Available for Non-Award Study

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 7007 Specialised Programming

3 units - semester 1 or 2

2 lectures, 4 hours practical work per week

Incompatible: Not available to Honours students

Assessment: Practical exam

Computational problem-solving with a focus on group learning and practice. Lecture topics cover general solution categories including: brute-force, divide and conquer, dynamic programming, greedy algorithms and search techniques

### COMP SCI 7015 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 7007

Corequisite: COMP SCI 7007

Assumed Knowledge: COMP SCI 3002, COMP SCI 2004

Assessment: Written exam, compulsory group project

This course in software engineering provides an introduction to the production of high quality software solutions to large tasks. Among the topics covered in this course are the following: models of the software life-cycle, requirements analysis and specification, program design techniques and paradigms, software specification techniques, configuration management and version control, quality assurance, integration and testing, project management, risk analysis, case study of ethical considerations in Software Engineering.

### COMP SCI 7022 Computer Vision

3 units - semester 2

2 lectures, 4 hours practical work per week

Available for Non-Award Study

Assumed Knowledge: first year mathematics

Incompatible: cannot be counted with COMP SCI 7022

Assessment: Exam 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 7023 Software Process Improvement

3 units - semester 2

2 lectures, 4 hours practical work per week

Available for Non-Award Study

Prerequisite: COMP SCI 7007

Corequisite: COMP SCI 7007

Incompatible: COMP SCI 7023 is not available to Honours students

Assessment: Exam and/or assignments

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 7026** **Computer Architecture**

3 units - semester 1

2 lectures, 4 hours practical work per week, 1 tutorial per fortnight

Available for Non-Award Study

Assumed Knowledge: COMP SCI 2000, COMP SCI 6005

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 7031** **Advanced Programming Paradigms**

3 units - semester 1

2 lectures, 4 hours practical work per week, 1 tutorial per fortnight

Available for Non-Award Study

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 7036** **Software Engineering in Industry**

3 units - semester 2

2 lectures, 6 hrs practical work per week

Restriction: Available only to M Software Eng. Students

Available for Non-Award Study

Prerequisite: COMP SCI 7096A

Incompatible: Enrolments must be approved by Head of School or Nominees

Assessment: Exam and/or assignments

This course will involve lectures and research into advanced topics concerning current software engineering methodologies and techniques. The course will include some lectures on the advanced topics in software engineering and some lectures by software engineering

practitioners on how software engineering methodologies are implemented in their industry. Lectures will be accompanied by site visits where students will gain a better understanding of the sort of products produced and the challenges involved in producing these products. There will also be an opportunity to talk with members of actual development teams who are responsible for particular software engineering related roles. Students will be guided to conduct preliminary research on selected topics relevant to software engineering industry practice. Students will be asked to produce two to three research reports which present their understanding, findings, and critical assessment of software engineering practices in industry.

### **COMP SCI 7039** **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

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 7041** **Language Translators**

3 units - semester 2

2 lectures, 4 hours practical work per week

Available for Non-Award Study

Assumed Knowledge: COMP SCI 2000, COMP SCI 2004, COMP SCI 3002

Assessment: Written exam, compulsory project

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 7044** **Computer System Security**

3 units - semester 1

2 lectures, 4 hrs practical work per week

Available for Non-Award Study

Assessment: Exam 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 7045**  
**Distributed High Performance Computing**

3 units - not offered in 2009  
 2 lectures, 4 hours practical work per week  
 Available for Non-Award Study  
 Assumed Knowledge: at least one of C, Fortran or Java, and code presented in any of these languages; Advanced Parallel Programming, Distributed Systems  
 Incompatible: cannot be counted with COMP SCI 7045 Advanced Operating Systems D  
 Assessment: Exam and/or assignments

The course gives an overview of current technologies for programming and using parallel and distributed high-performance computing systems. The course provides material in parallel computing, cluster computing, distributed computing and grid computing technologies, including an introduction to web services and grid services. Some background is given on architectures for high performance computing, but the emphasis is on what the software developer needs to know to exploit high performance distributed computing architectures. The course has a strongly applied outlook.

**COMP SCI 7054**  
**High Integrity Software Engineering**

3 units - semester 1  
 2 lectures, 6 hours practical work per week  
 Available for Non-Award Study  
 Prerequisite: COMP SCI 7015  
 Assessment: Exam 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 7059**  
**Artificial Intelligence**

3 units - semester 1  
 2 lectures, 4 hours practical work per week, 1 tutorial per fortnight  
 Available for Non-Award Study  
 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 7064**  
**Operating Systems**

3 units - semester 2  
 2 lectures, 4 hours practical work per week, 1 tutorial per fortnight  
 Available for Non-Award Study  
 Assumed Knowledge: COMP SCI 2000 Computer Systems and COMP SCI 2004 Data Structures and Algorithms  
 Assessment: Written exam, compulsory projects

OS purposes: resource management and the extended virtual computer; historical development. Processes: critical sections and mutual exclusion, semaphores, monitors, classical problems, deadlock; process scheduling. Input and Output: hardware and software control. Memory management: multi-programming; swapping; virtual memory, paging and symbolic segmentation; File System: operations, implementation, performance. Protection mechanisms: protection domains, access lists, capability systems, principle of minimum privilege.

**COMP SCI 7076**  
**Distributed Systems**

3 units - semester 1  
 2 lectures, 4 hours practical work per week, 1 tutorial per fortnight  
 Available for Non-Award Study  
 Assumed Knowledge: COMP SCI 2000, COMP SCI 2004, COMP SCI 3001; exposure to SQL programming as in 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 7077** **System Modelling and Simulation**

3 units - semester 1

2 lectures, 1 tutorial, 4 hours practical work per week

Available for Non-Award Study

Assumed Knowledge: basic level of proficiency in some programming language & Engineering mathematics

Assessment: Exam &/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 7080** **Computer Science Concepts**

3 units - semester 1 or 2

8 hours lectures, 2 hours practical laboratory, 1 hour tutorial per week

- course runs first 6 weeks of semester

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 7081** **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

Assumed Knowledge: Mathematics as in MATHS 1011/1012 or MATHS 1000A/B or MATHS 1008

Assessment: Written exam, compulsory projects

Information storage representation, Memory organisation and hierarchy, Processor fundamentals, assembler programming, assembler operation, subroutine calling mechanisms, linking/loading, Input-output and device controllers, requirements for supporting an operating system and device drivers.

### **COMP SCI 7082** **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

Assumed Knowledge: Mathematics such as in MATHS 1011/1012, MATHS 1000A/B or MATHS 1008

Assessment: Practical exam 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 7083** **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

Assumed Knowledge: Mathematics as in MATHS 1011/1012 MATHS 1000A/B or MATHS 1008

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, ACID properties, locks, deadlock, logging, shadow paging.

### **COMP SCI 7084** **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

Assumed Knowledge: COMP SCI 2004; knowledge of Mathematics as in MATHS 1011/1012 or MATHS 1000A/B or MATHS 1008

Assessment: Written exam, compulsory projects

Design: software design, UML notation, static models - identifying classes and associations; dynamic models - identifying states, events, transitions, use cases, mapping designs into code. Specification: the scope, role and styles of software specification. Testing: modes of testing, organising test suites. Human issues: managing object-oriented projects, ethics, professional practice.

### **COMP SCI 7085** **Numerical Methods**

3 units - not offered in 2009

2 lectures, 4 hours practical work per week; 1 tutorial per fortnight

Available for Non-Award Study

Assumed Knowledge: MATHS 1011/1012 or MATHS 1000A/B

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 7088** **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

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 7089** **Event Driven Computing**

3 units - semester 2

2 lectures, 4 hours practical work per week, 1 tutorial per fortnight

Available for Non-Award Study

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. Practical projects cover the use of FSAs for control logic and GUI design.

### **COMP SCI 7090** **Computer Graphics**

3 units - semester 2

2 lectures, 4 hours practical work per week, 1 tutorial per fortnight

Available for Non-Award Study

Assumed Knowledge: PURE MTH 2000 Discrete Mathematics II or MATHS 1012 Mathematics IB, COMP SCI 2005 Systems Programming in C and C++

Assessment: Written exam, compulsory projects

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 7091** **Commercialising IT Research**

3 units - semester 1 or 2

2 lectures, 4 hours practical work per week

Available for Non-Award Study

Assessment: Exam and/or assignments

This course covers the process of transforming IT research into commercial products for the marketplace. Topics include: Protection of intellectual property (IP) - patents, trade secrets, copyrights. Creation of business plans for IT companies and products. Choosing a company structure, starting up, and avoiding early pitfalls. Understanding business ethics. Building out a management team and board. Raising capital - angel investors, venture capital, debt financing. Marketing - branding, positioning, media outlets, analysts. Sales - IP licensing, support infrastructure, joint ventures, partnerships. Differences between US and Australian commercialisation environments.

### **COMP SCI 7092** **Mobile and Wireless Networks**

3 units - semester 2

2 lectures, 4 hours practical work per week

Available for Non-Award Study

Assumed Knowledge: Internet protocols, architecture and basic network performance analysis as taught in COMP SCI 7039

Assessment: Exam and/or assignments

This course examines the characteristics of mobile and wireless networks and the impact of these characteristics on the development of software and supporting protocols. Topics covered include: mobile and wireless application design and development environments, middleware support, protocol requirements for ad-hoc and sensor networks, wireless & mobile security vulnerabilities and standards, supporting reliable communication in lossy and intermittently connected networks; challenges and architectures for wireless mobility - 4G networks, Wi-Fi, Wi-Max, Bluetooth, Mobile IP, convergence of voice and data networks.

### **COMP SCI 7094** **Distributed Databases and Data Mining**

3 units - semester 1

24 hours lectures, 48 hours practical

Available for Non-Award Study

Assumed Knowledge: Database systems as in COMP SCI 7083

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.

### **COMP SCI 7095A/B** **Master Computer Science Research Project**

15 units - full year

Restriction: Available only M Comp Sci

Prerequisite: Must enrol in COMP SCI 7095A in previous semester

A student undertaking the project component of M. Comp.Sc. will enrol in this project course worth 15 units over 2 consecutive semesters. The project will be assessed as a single entity - the student receiving this mark for all the master project courses in which they are enrolled. The project will consist of an investigation in an area of computer science. Projects are supervised by one or more members of the academic staff, sometimes in association with one of the School's research groups.

### **COMP SCI 7096A/B** **Master of Software Engineering Project**

15 units - full year

30 hrs practical work per week

Restriction: Available only M Software Engineering

Prerequisite: Student must enrol in COMP SCI 7096A in previous semester

A student undertaking the project component of M. SoftEng will enrol in this project course worth 15 units over a calendar year. This is a major software project as approved by the Head of School. The number of units reflects the scope of the project. It is undertaken as a group project. The project will be assessed as a single entity - the student receiving this mark for all the project courses in which they enrolled.

### **COMP SCI 7097** **Communication and Study Skills**

3 units - semester 1 or 2

24 hrs lectures, 10 hrs tutorials, 48 hrs practicals

Available for Non-Award Study

Assessment: Written reports and assignments 70%, oral presentation 20%, participation 10%

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.

## **Corporate Finance**

### **CORPFIN 6000** **Industry Research Project**

3 units - semester 1 or 2

Available for Non-Award Study

Assumed Knowledge: CORPFIN 7005 or MANAGEMENT 7101, plus all other foundation courses of M.Com or MBA

Assessment: Assignments 75%, participation and presentations 25%

The core element of this course involves undertaking a research project on a chosen wealth management issue which includes meeting with a number of industry professionals to gain insight into the selected project topic. The research element of the course is supported by seminar review and discussion of a number of aspects of the wealth management industry from which research projects can be selected. This includes matters dealing with how financial planning firms deals with their clients, the funds management industry, industry regulatory issues and the roles of various service providers to the financial planning industry. Assessment is based on both seminar work and the project report.

### **CORPFIN 6001** **Self-Managed Super Distribution & Estate Planning**

3 units - semester 1 or 2

Available for Non-Award Study

Assumed Knowledge: CORPFIN 7005

Assessment: Assignments 50%, final exam 50%

This course consists of two sections. Three days will focus on SMSF's and examine estate planning, investment strategies, alternative investments, strategic opportunities and taxation. This section will also cover the pension establishment process and will examine issues such as the use of reserves in the pension environment, the segregation of pension assets, preservation rules, the payment of benefits to members and beneficiaries and the process to follow when winding-up a SMSF. One day of the course is devoted to giving participants a general overview of the techniques used for portfolio constructions and how to critically assess performance measurements.

### **CORPFIN 6002** **Self-Managed Super - Establish & Accumulate**

3 units - semester 1 or 2

Available for Non-Award Study

Assumed Knowledge: CORPFIN 7005

Assessment: Assignments 50%, final exam 50%

Participants will analyse the benefits of SMSF's and the factors that have resulted in them being adopted by a wide range of self-employed people, employees on higher salaries with flexible remuneration arrangements and those close to or in retirement. The topics covered will include the formation of SMSF's, issues around trust deeds and the regulations governing them and the Superannuation Industry (Supervision) Act (SIS Act). In



addition, there will be a detailed review of compliance, investment strategies, taxation at the fund level, CGT small business exemptions and instalment warrants including the new borrowing rules. The rules concerning related party asset acquisitions, sole purpose, in-house assets, loans to members and accepting contributions will also be examined. Additionally, the participants will learn the rights and obligations of the trustees, members and other parties that are connected with the operation of the fund.

### **CORPFIN 6003 Tax, Estate and Wealth Planning**

3 units - semester 1 or 2

Available for Non-Award Study

Assumed Knowledge: CORPFIN 7005

Assessment: Assignments 50%, final exam 50%

This course covers three sections tax planning, estate planning and wealth protection. The tax planning section focuses on an overview of the Australian tax system & tax planning, taxation of investment structures, taxation of investment income, taxation of employee remuneration and international taxation. The term 'estate planning' refers to the process of planning and implementing the orderly transfer of a person's wealth in the event of his or her death for the benefit of his or her intended beneficiaries. This section focuses on what are estate & non-estate assets, estate planning objectives, strategies to achieve objectives, specific strategies for estate planning, taxation issues relating to deceased estates and the estate administration process. Wealth Protection focuses on principles of insurance, insurance as risk management tool in financial planning, regulation of sales practices and types of insurance cover.

### **CORPFIN 6004 Global Wealth Management**

3 units - semester 1 or 2

Available for Non-Award Study

Assumed Knowledge: CORPFIN 7005

Assessment: Assignments 50%, final exam 50%

This course is taught by a diverse team of specialised lecturers and looks at the needs of high net worth investors. It examines diversification of risk management and portfolio performance measurement. The vital importance of asset allocation, both strategic and tactical are explained and workshopped. The increasingly popular areas of financing infrastructure projects and private equity are examined. There is a growing global interest in Islamic banking, and therefore the history and current market position of popular Islamic financing products is studied. The rapid growth of the global funds management industry and the financial planning and advice industry are looked at and opportunities for investors explored.

### **CORPFIN 6005 Investment Advisory Process & CRMgmt**

3 units - semester 1 or 2

Available for Non-Award Study

Assumed Knowledge: CORPFIN 7005

Assessment: Assignments 50%, final exam 50%

The course is designed to provide participants with the skills necessary to conduct formal interviews and maintain an ongoing service relationship with clients from various cultural backgrounds. It includes an analysis of cultural sensitivities and compares a range of methods for collecting relevant financial information to determine the client's risk profile, credit rating, investment horizon and liquidity constraints. Participants will have the opportunity to develop skills through practising client interviews and analysing case studies of financial planning strategies. Students will also develop the skills required to provide written recommendations to clients using a statement of advice, a statement of additional advice and a record of advice.

### **CORPFIN 7005 Principles of Finance (M)**

3 units - summer semester or semester 1 or 2

Assumed Knowledge: COMMERCE 7033

Assessment: Exam, written assignments, case study analyses, group or individual projects as determined at first class

Risk and return are key concepts in investment. This module discusses the measurement of risk and return. The relationship between risk and return is examined through the various methods of valuation and asset pricing models. Capital budgeting techniques, cost of capital and issues of capital structure are also covered as these enable the student to assess the investment plans of companies.

### **CORPFIN 7017 Financial Statement Analysis (M)**

3 units - semester 2

2 hour seminar per week, 1 hour tutorial

Assessment: Assignments, exam as determined at first class

This course focuses on developing an understanding of the components of financial statements, impact of capital market pressures on accounting choice incentives, and development of analytical skills for financial analysis. In the set activities and assignments, the course will provide opportunities for the practical implementation of the material covered. This course is essential for all individuals working in the business world in some capacity. Understanding financial accounting information is critical for strategic planning, implementation and monitoring, and rate of return analyses. Being able to ask for the appropriate financial information and analyse that financial information is particularly important for individuals seeking, or already in, management positions at all levels of organizations. Financial statement analysis can be orientated in different ways to suit the needs of the individuals in the particular course. This offering of Financial Statement Analysis has been specially designed

to meet the needs of individuals who have either a small, or a 'rusty' background in accounting.

### **CORPFIN 7019** **Portfolio Theory & Management (M)**

3 units - semester 1 or 2

2 lectures, 1 tutorial per week

Assumed Knowledge: COMMERCE 7005, CORPFIN 7039 & 7040

Assessment: Assignments, exam as determined at first class

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 7020** **Options Futures & Risk Management (M)**

3 units - summer semester or semester 1 or 2

2 lectures, 1 tutorial per week

Assumed Knowledge: COMMERCE 7005, CORPFIN 7039

Assessment: Assignments, exam as determined at first class

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 7021** **Corporate Investment & Strategy (M)**

3 units - semester 1

2 lectures, 1 tutorial per week

Prerequisite: ACCTING 7024, CORPFIN 7005, COMMERCE 7033, ECON 7200

Assessment: Exam and assignment/test as determined at first class

This course examines techniques and issues in corporate finance with a focus on corporate investment decisions. Topics include stock valuation using free cash flow technique, valuation of growth opportunities, determining sustainable growth rates, estimation of beta using online data, techniques for evaluating international investment

proposals, application of option pricing models in a corporate setting, and evaluation of techniques for measuring financial performance.

### **CORPFIN 7022** **Corporate Finance Theory (M)**

3 units - semester 2

2 lectures, 1 tutorial per week

Prerequisite: ACCTG 7024, ECON 7200, CORPFIN 7055, COMMERCE 7033

Assumed Knowledge: ACCTING 7000, COMMERCE 7005

Assessment: Assignments, tests, exam as determined at first class

The objective of the course is to gain an appreciation of the theoretical controversies surrounding corporate finance policies, leading to formulation of financing strategies. Topics: competing capital structure theories including financial distress and agency costs, dividend policy and taxation, IPOs in both debt and equity markets, motives for convertibles and warrants, valuing real options, rationales for corporate diversification including internal capital markets and agency theory.

### **CORPFIN 7023** **Financial Modelling Techniques (M)**

3 units - semester 2

3 lectures per week, some tutorials

Assumed Knowledge: Excel spreadsheets

Assessment: Exam, assignments

The course deals with discrete time financial modelling of various financial assets, interest rates, exchange rates. It will deal with the hedging and valuation of financial products (derivative products), the modelling of yield curves and interest rate management. The emphasis will be on practical modelling, real world applications, conforming with market models used in the financial industry at the current time. Binomial lattice type models, with implementation of spreadsheets, Ho and Lee type term structure models for interest rates and their application to interest rate risk management.

### **CORPFIN 7039** **Equity Valuation & Analysis (M)**

3 units - semester 1 or 2

3 hour seminar per week

Assumed Knowledge: ACCTING 7000 & COMMERCE 7005

Assessment: Assignments, exam as determined at first class

The course analyses companies from a fundamental perspective in order to derive an intrinsic value for stock.

Topics: Fundamental analysis, determination of growth, discount cash flows models including dividend discount models, free cash flow models and residual income models; relative valuation models including price-earnings and price-book multiples; valuation of private companies, start up companies, companies with negative earnings and mergers and acquisitions.

### **CORPFIN 7040** **Fixed Income Securities (M)**

3 units - semester 1 or 2

2 lectures, 1 tutorial per week

Assumed Knowledge: COMMERCE 7005

Assessment: Assignments, exam as determined at first class

This course examines the valuation of fixed-income securities, the market operations and management of risk.

Topics include: valuation of bonds, term structure of interest rate, measuring and managing interest rate risk, corporate bond market, passive and active bond portfolio management, performance measurement, securitisation and interest rate derivatives.

### **CORPFIN 7042** **Treasury & Financial Risk Management (M)**

3 units - semester 1 or 2

3 hr seminar per week

Assumed Knowledge: at least 2 finance specialisation courses

Assessment: Assignments, exam as determined at first class

The course examines the process and instruments used in treasury management and their application in hedging risk and creating risk profiles.

Topics: money market instruments and management including yield curve, convexity and price value of basis point, bond portfolio management, bond hedging and trading; derivatives including futures, interest rate swaps, currency swaps, credit derivatives; the management of market, credit, liquidity and operations risks, and computing the value of risk. These issues are examined from the viewpoint of both financial and non-financial organisations.

### **CORPFIN 7045** **Wealth Management in China (M)**

3 units - summer semester or semester 1 or 2

Assumed Knowledge: CORPFIN 7005

Assessment: assignments 40%, final exam 60% as determined in first class

This course would be of interest to anyone planning to conduct business within China. Participants will examine the various financial products available in China, overview the various exchanges, analyze the banking and insurance sectors plus learn about the regulatory environment in which wealth management for high net-worth clients is conducted. Issues also examined include analyzing risks involved in handling financial intermediary processes, trade liberalization (WTO regulation in regards to the financial sector), repatriation of funds and investment processes in and out of China.

### **CORPFIN 7102** **Advanced Theory in Finance (M)**

3 units - semester 1 or 2

3 hour seminar per week.

Assessment: As determined at first lecture

This course is designed to: Obtain an in-depth understanding of some of the main theoretical and research perspectives that have contributed to the literature in finance; & Ability to critically review issues in financial economics and corporate finance respectively. Financial economics topics include: asset pricing models, market efficiency, behavioural finance, trading mechanisms and volatility. Corporate finance topics include: capital structure, signalling models, executive compensation and takeovers.

This is a readings-based course in which students will critically review scholarly research articles each week in advance. It will be the responsibility of students to select additional readings for each session. It is suggested that this should be a shared responsibility with students taking turns to choose material and make copies of it available to course lecturers and other class members. Students should distribute this extra reading material one week prior to the session.

Students are to come to each session prepared to summarise and comment on what they have read. It is anticipated that a minimum of five - eight hours of preparation time will be required. Class presentations are expected to be comprehensive requiring not only mastery of the arguments but also supported by visual material. Participation marks will be awarded for demonstration of effective reading and understanding the arguments presented.

## **Defence Science**

### **DEFSCI 7002** **Distributed Systems**

3 units - semester 1

2 lectures, 4 hours practical work per week, 1 tutorial per fortnight

Assumed Knowledge: COMP SCI 2000, COMP SCI 2004, COMP SCI 3001; exposure to SQL programming as from COMP SCI 2002

Incompatible: Cannot be counted with COMP SCI 7076

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.

### **DEFSCI 7003** **Artificial Intelligence**

3 units - semester 1

2 lectures, 4 hours practical work per week, 1 tutorial per fortnight

Assumed Knowledge: COMP SCI 2004

Incompatible: Cannot be counted with COMP SCI 7059

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.

### **DEFSCI 7006** **Antennas and Propagation**

3 units - semester 2

Theory of radiation, wire antennas, antenna arrays, aperture antennas, broadband antennas, numerical analysis, communications and radar systems, propagation.

### **DEFSCI 7010** **Beamforming and Array Processing**

3 units - semester 2

30 hours lectures, tutorials

Assumed Knowledge: Linear Systems (discrete and continuous), Linear Algebra (matrices), Probability Theory, Fourier and Z Transforms, Random Processes and MATLAB

Assessment: Exam 50%, assignment 50%

Introductory material - Concepts, key issues and motivating array examples; Simple propagating field models. Deterministic Signals - Conventional beamforming concepts: narrowband beamforming; Beam patterns: beamwidth, sidelobes and grating lobes, Array shading real weights, Array factor theorems; Multiple simultaneous beams; Time delay and sum beamforming. Random Signals - Probability and random processes for arrays; Cross-spectral matrices. Frequency Domain Beamforming - Frequency domain Approach single and multiple beams; Array Gain; Frequency wavenumber; Array shading and null steering. Optimum Beamforming in Frequency Domain - Optimisation criteria constrained minimum mean square and Conventional and Optimum Comparisons; Constraints: mainbeam and nulls; Sample Matrix Inverse and statistical considerations. Adaptive Beamforming in Frequency Domain - Sample Matrix Inverse update; Gradient descent and optimisation surfaces with constraints; Convergence requirements; Stochastic Descent Methods: Least Mean Square; Convergence in the mean and mean square convergence. Optimum and Adaptive Beamforming in Time Domain - Multichannel tapped delay line approach; Optimum solution; Adaptive solution with passband constraints. Subspace Methods - Beam space approaches; MUSIC and other eigen space approaches.

### **DEFSCI 7012** **Multisensor Data Fusion**

3 units - semester 2

Online only

Assumed Knowledge: Linear algebra (matrices), basic knowledge on differential equations (linear systems) & complex analysis (Laplace transforms), probability theory, MATLAB.

Assessment: Details in study guide provided at start of semester

Elementary applications and techniques for data fusion in military and civilian systems; inference, classification, multisensor classification, tracking, multisensor registration, image registration, and graphical statistical models for expert systems. Case studies.

### **DEFSCI 7016A/B** **Master of Sciences (Defence) Research Project**

12 units - full year

Assessment: Thesis

A supervised research project in a topic agreed between the University and DSTO and jointly supervised by these bodies.

### **DEFSCI 7022** **Multimedia Communications**

3 units - semester 2

30 hours lectures, tutorials

Assumed Knowledge: ELEC ENG 4046 Telecommunications IV or equivalent

Assessment: 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. Lossy compression for image, audio and video coding. Video coding for videoconferencing and low data rate applications, (H.261, H.263, H.26L, MPEG4 VLBV). Audiovisual system standards (H.324, H.221, H.223, H.245). MPEG standards family (MPEG-1, MPEG-2, MPEG-4, MPEG-7, MPEG-21) and applications. Video and voice over IP.

### **DEFSCI 7029** **Kalman Filtering and Tracking**

3 units - semester 2

Online, possibility of short course

Assumed Knowledge: Linear algebra (matrices), probability theory, linear systems and MATLAB

Assessment: Details provided at start of semester

The Kalman Filter: Stochastic state-variable systems, Optimality criteria for the estimation of state variables; The Maximum-likelihood solution for independent Gaussian noise processes; The innovations sequence;

The least-squares Kalman filter; Systems with correlated noise processes; Stochastic systems with time-invariant coefficients; The square-root algorithm; The extended Kalman filter, Adaptive system identification. Tracking Theory: Alpha-beta trackers, Kalman-filter tracking; Probability Data Association Tracking Hidden Markov models and the Viterbi Algorithm.

### **DEFSCI 7031** **Mobile Communications**

3 units - Not available in 2009

Online - fortnightly tutorials at Mawson Lakes

Assessment: Details at start of semester

Introduction, mobile radio propagation, channel modelling, modulation, diversity, terminal mobility and teletraffic models, cellular systems, the AMPS cellular system, time division multiple access cellular, personal communications networks and intelligent networks, low earth orbit.

### **DEFSCI 7035** **Detection, Estimation and Classification**

3 units - semester 1

Online only

Assumed Knowledge: DEFSCI 7036 or equivalent

Assessment: Exam 50%, 5 assignments & essay 50% - indicative only, details at start of semester

Basic Ideas: Probability - Probability distributions, expectations, multivariate normals; Random variables; Independence; Conditional probability; Covariance matrix. Hypothesis testing: Bayes Rule; Likelihood; Applications to detection and classification problems; Priors and MAP; Cost functions and decision rules; Minimum risk; Composite testing: ROC's; Kernel Estimator method for finding pdf. Karhunen-Loeve and Linear Discriminate analysis: Review of eigenvalues and eigenvectors, singular value decomposition; Karhunen-Loeve method: reduction of continuous to discrete data; Linear discriminant analysis; Linear detection; Linear classifier. Parameter estimation: Bias and consistency; Efficiency; Maximum Likelihood; Bayesian Estimates; Linear Mean-Square Estimation. Advanced parametric methods: Minimax method; Neyman-Pearson method; The EM algorithm; Robust parameter estimation and detection. Evaluation: Probability of error in hypothesis testing; Chernoff bounds; Probability of error in parameter estimation; Cramer-Rao lower bounds; Dimension and misclassification.

### **DEFSCI 7037** **Signal Synthesis and Analysis**

3 units - semester 1

Online with possibility of weekly lectures

Assumed Knowledge: Fourier transforms and Z-transforms, Linear Algebra

Assessment: Mid-term & final exam 50%, 5 assignments & essay 50% - indicative only, details at start of semester

Hilbert space: Inner product, completeness,  $L_2$ , orthogonality and Reisz basis, Parseval's theorem, linear operators and resolutions of unity. Fourier Series: Basis,  $L_2(\mathbb{R}^n)$ , Plancherel Theorem, Uncertainty Theorem,

Multidimensional Fourier transform, Short Time Fourier transform. Discrete Fourier Transform Properties, DFT Matrix, factorisation, Fast Fourier transform, sampling and Interpolation, Shannon sampling. Wavelets Multiresolution Analysis: Scaling function and dilation, orthogonal wavelets, compact supported wavelets, Quadrature Mirror filters, Finite discrete wavelet transform, wavelet design. Overview of other transforms. The Course includes example/s like how wavelet analysis can be used with coding for data transmission.

### **DEFSCI 7039** **Satellite Communications**

3 units - semester 1

Online and once a week at Mawson Lakes

Assessment: Details provided at start of semester

Satellite link models. Link budget calculations. Space segment. Propagation and interference. Modulation for non-linear satellite channels. Combined modulation and coding. Multiple access techniques. Case studies.

### **DEFSCI 7042** **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

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.

### **DEFSCI 7043** **Communication Network Design**

3 units - semester 1

0 hours lecture, tutorials

Available for Non-Award Study

Assumed Knowledge: basic concepts of & discrete optimisation such as APP MTH 2008, APP MTH 3014, 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.

## **DEFSCI 7044** **Adaptive Business Intelligence**

3 units - semester 1 or 2

2 lectures, 4 hours practical work per week

Assumed Knowledge: Java, program design, discrete Mathematics

Incompatible: Cannot be counted with COMP SCI 7009 M

Assessment: Exam and/or assignments

Adaptive Business Intelligence (ABI) is the discipline of using prediction and optimization techniques to build self-learning "decisioning" systems. ABI fundamentals: philosophy of ABI, methodology, techniques, adaptive real-life software, and applications of ABI systems. Optimization techniques: Local Hill-Climber, Stochastic Hill-Climber, Simulated Annealing, Tabu Search, Evolutionary Algorithm, Constraint Handling, Multi-Objective Optimization, Adaptability. Prediction techniques: Data Preparation, Fuzzy Logic, Neural Networks, Genetic Programming, Ant Systems, Swarm Intelligence, Agent-Based Modeling, Co-Evolution, Adaptability. Hybrid Systems: Hybrid Prediction Systems, Hybrid Optimization Systems, Adaptability. Real-life ABI case studies.

## **DEFSCI 7060** **Computer Vision**

3 units - semester 2

Assumed Knowledge: first year mathematics

Incompatible: cannot be counted with COMP SCI 7022

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.

## **DEFSCI 7092** **Mobile and Wireless Networks**

3 units - semester 2

Assumed Knowledge: Internet protocols, architecture and basic network performance analysis

Incompatible: Cannot be counted with COMP SCI 7092

This course examines the characteristics of mobile and wireless networks and the impact of these characteristics on the development of software and supporting protocols. Topics covered include: mobile and wireless application design and development environments, middleware support, protocol requirements for ad-hoc and sensor networks, wireless & mobile security vulnerabilities and standards, supporting reliable communication in lossy and intermittently connected networks; challenges and

architectures for wireless mobility - 4G networks, Wi-Fi, Wi-Max, Bluetooth, Mobile IP, convergence of voice and data networks.

## **DEFSCI 7207** **Sonar Sensors and Systems**

3 units - Not available in 2009

24 hrs Lectures, 6 hrs tutorial, Online as required

Prerequisite: Appropriate degree or experience

Assumed Knowledge: Some introductory knowledge of principles of linear systems, acoustics, digital systems, beamforming and statistical detection theory

Assessment: in-term assessments 50%, exam 50%

Introduction to sonar, The Sonar Equation - Acoustic Propagation, The Sonar Environment, Array Gain and Detection Threshold; Sonar Chain - The Wet End, Front End Conditioning, Array Processing, Active and Passive Signal Analysis and Post Processing; Sonar Systems Overview.

## **DEFSCI 7211** **Radar Principles & Systems - an Introduction**

3 units - semester 1

24 lectures, 6 tutorials

Prerequisite: Appropriate degree or experience

Assumed Knowledge: basis knowledge of linear systems, antenna theory, propagation and signal processing

Assessment: exam, assignments

Overview of radar including physical principles, system components, the processing chain and typical applications. Detection and the radar equation including statistical detection theory and CFAR. Propagation, scattering and clutter including attenuation, radar cross section, target fluctuations and ground clutter for airborne radar. FMCW radars including the Doppler effect, pulse compression, ambiguities and OTHR radar systems. Matched filters for radar including examples and relation to detection theory. Pulsed radars including spectrum, ambiguities and ghosting and pulse doppler radar. Radar waveforms and ambiguity functions and their role in system design. Antennas and phased arrays including beamforming, direction of arrival estimation, adaptive arrays and STAP. Imaging and classification including SAR, ISAR and high range resolution radar.

## **DEFSCI 7212** **Introduction to Electronic Defence Systems**

3 units - semester 2

24 hours lectures, 6 hours tutorials

Available for Non-Award Study

Assumed Knowledge: ELEC ENG 3018 RF Engineering III, ELEC ENG 2007 Signals and Systems, ELEC ENG 2009 Eng Electromagnetics

Assessment: Quizzes 10%, computer simulation 20%, project report 70%

This course aims to introduce students to the basic operating principles of electronic defence systems such as radar, electronic warfare and satellite navigation systems.

### **SIP 7001** **Information Theory**

3 units - semester 1

Online, possibility of weekly tutorials at Mawson Lakes or 3-5 day short course

Assumed Knowledge: probability theory, communication theory, MATLAB

Assessment: Assignments 60%, exam 40% - indicative only, details at start of semester

Information Measures: entropy, relative entropy and mutual information. Source coding: Discrete memoryless sources, Shannon's first (noiseless) coding theorem, Shannon-Fano-Elias coding, Huffman coding, Sources with memory. Universal source coding theorem. Ziv-Lempel Coding. Channel coding: Discrete memoryless channels, channel capacity, Shannon's second (noisy) coding theorem, error control coding, performance bounds. Advanced topics: multiple-user information theory, fading channels, multiple-antenna channels.

### **SIP 7002** **Kalman Filtering and Tracking**

3 units - semester 2

Online, possibility of short course

Assumed Knowledge: Linear algebra (matrices), probability theory, linear systems and MATLAB

Assessment: Details at start of semester

The Kalman Filter: Stochastic state-variable systems, Optimality criteria for the estimation of state variables; The Maximum-likelihood solution for independent Gaussian noise processes; The innovations sequence; The least-squares Kalman filter; Systems with correlated noise processes; Stochastic systems with time-invariant coefficients; The square-root algorithm; The extended Kalman filter, Adaptive system identification. Tracking Theory: Alpha-beta trackers, Kalman-filter tracking; Probability Data Association Tracking Hidden Markov models and the Viterbi Algorithm.

### **SIP 7004** **Mobile Communications**

3 units - Not available in 2009

Online - fortnightly tutorials at Mawson Lakes

Assessment: Details at start of semester

Introduction, mobile radio propagation, channel modelling, modulation, diversity, terminal mobility and teletraffic models, cellular systems, the AMPS cellular system, time division multiple access cellular, personal communications networks and intelligent networks, low earth orbit.

### **SIP 7005** **Multisensor Data Fusion**

3 units - semester 2

Online only

Assumed Knowledge: Linear algebra (matrices), differential equations (linear systems) & complex analysis (Laplace transforms), probability theory, MATLAB

Assessment: Details at start of semester

Elementary applications and techniques for data fusion in military and civilian systems; inference, classification, multisensor classification, tracking, multisensor registration, image registration, and graphical statistical models for expert systems. Case studies.

### **SIP 7012** **Detection, Estimation and Classification**

3 units - semester 1

Lectures and tutorials

Assumed Knowledge: UGRD level signal processing, random processes and statistics

Assessment: Final exam and assignments

Probability, random variables, distribution functions. Examples of discrete and continuous distributions. Characteristic functions, moments. Functions of random variables. Statistical hypotheses. Bayes and Neyman-Pearson criteria, likelihood ratio test. Asymptotic power of a statistical test. Locally optimal detection. Robust detection. Linear minimum variance estimation. Maximum likelihood estimation. Properties of estimators. Error bounds. Linear classification. Non-linear classification using Kernel methods. Support vector methods.

### **SIP 7013** **Introduction to Discrete Linear Systems**

3 units - semester 1

Online only

Assumed Knowledge: Linear algebra (matrices), differential equations (linear systems) & complex analysis (Laplace transforms), probability theory, MATLAB

Assessment: 2 assignments 40%, intermediate exam 20%, final exam 40% - indicative only, details at start of semester

Deterministic time-invariant linear systems: discrete-time and continuous-time state vector equations and state variable diagrams; solution of state vector equations, matrix exponentials, state-transition matrices; controllability and observability; solution by Z-transforms and Laplace transforms, transfer functions; stability, asymptotic stability, state feedback and pole placement. Introduction to stochastic linear systems: stochastic processes, ergodic series, autocorrelation function, the ARMAX model, special cases of the ARMAX process, Yule-Walker equations and system parameter estimation.

### **SIP 7015** **Signal Synthesis and Analysis**

3 units - semester 1

Online with possibility of weekly lectures

Assumed Knowledge: Fourier transforms and Z-transforms, Linear Algebra

Assessment: Mid-term & final exam 50%, 5 assignments & essay 50% - indicative only, details at start of semester

Hilbert space: Inner product, completeness, L2, orthogonality and Reisz basis, Parseval's theorem, linear operators and resolutions of unity. Fourier Series: Basis, L2(Rn), Plancherel Theorem, Uncertainty Theorem, Multidimensional Fourier transform, Short Time Fourier transform. Discrete Fourier Transform Properties, DFT Matrix, factorisation, Fast Fourier transform, sampling and

Interpolation, Shannon sampling. Wavelets Multiresolution Analysis: Scaling function and dilation, orthogonal wavelets, compact supported wavelets, Quadrature Mirror filters, Finite discrete wavelet transform, wavelet design. Overview of other transforms.

The Course includes example/s like how wavelet analysis can be used with coding for data transmission.

### **SIP 7017 Specialised Studies A**

3 units - semester 1 or 2

3 - 4 day short courses

Short courses to be offered during the semester - will be advised on MSIP website.

### **SIP 7018 Specialised Studies B**

3 units - semester 1 or 2

3 - 4 day short courses

Short courses to be offered during the semester - will be advised on MSIP website.

### **SIP 7019 Specialised Studies C**

3 units - semester 1 or 2

3 - 4 day short courses

Short courses to be offered during the semester will be advised on MSIP website.

### **SIP 7020 Specialised Studies D**

3 units - semester 1 or 2

3 - 4 day short courses

Short courses to be offered during the semester will be advised on MSIP website.

### **SIP 7023 Satellite Communications**

3 units - semester 1

Online and once a week at Mawson Lakes

Assessment: Details at start of semester

Satellite link models. Link budget calculations. Space segment. Propagation and interference. Modulation for non-linear satellite channels. Combined modulation and coding. Multiple access techniques. Case studies.

### **SIP 7024 Adaptive Signal Processing**

3 units - semester 1

Online with possibility of 3-5 day short course or weekly lecture delivery.

Assumed Knowledge: Linear algebra (matrices), differential equations (linear systems) and probability theory, MATLAB

Assessment: 5 assignments 50%, exam 25%, quizzes 25% - indicative only, details at start of semester

Introductory and Preliminary material: Introduction to the concepts, key issues and motivating examples for adaptive filters; Discrete time linear systems and filters; Random variables and random processes, covariance matrices; Z transforms and spectra of stationary random processes. Optimum Linear Systems: Error surfaces and minimum mean square error; Optimum discrete time Wiener filter; Principle of orthogonality and canonical forms; Constrained optimisation; Method of steepest descent - convergence issues; Stochastic gradient descent LMS - convergence in the mean and misadjustment; Case study Least squares and recursive least squares. Linear Prediction: Forward and backward linear prediction; Levinson Durbin; Lattice filters.

### **SIP 7025 Beamforming and Array Processing**

3 units - semester 2

Mixed mode: online & short course/weekly lectures

Assumed Knowledge: Linear Systems (discrete & continuous), Linear Algebra (matrices), Probability Theory, Fourier and Z Transforms and MATLAB

Assessment: 5 assignments 50%, exam 25%, quizzes 25% - indicative only, details at start of semester

Introductory Material: Concepts, key issues and motivating array examples; Simple propagating field models. Deterministic Signals: Conventional beamforming concepts: narrowband beamforming; Beam patterns: beamwidth, sidelobes and grating lobes, Array shading real weights, Array factor theorems; Multiple simultaneous beams; Wavevectors and frequency wavenumber beamforming; Time delay and sum beamforming. Random Signals: Probability and random processes for arrays; Cross-spectral matrices. Frequency Domain Beamforming: Frequency domain Approach single and multiple beams; Array Gain; Frequency wavenumber; Array shading and null steering. Optimum Beamforming in Frequency Domain: Optimisation criteria constrained minimum mean square and Conventional and Optimum Comparisons; Constraints: minbeam and nulls; Sample Matrix Inverse and statistical considerations. Adaptive Beamforming in Frequency Domain: Sample Matrix Inverse update, Gradient descent and optimisation surfaces with constraints; Convergence requirements; Stochastic Descent Methods: Least Mean Square; Convergence in the mean and mean square convergence. Optimum and Adaptive Beamforming in Time Domain: Multichannel tapped delay line approach; Optimum solution; Adaptive solution with passband constraints.

### **SIP 7026 Mathematical Coding and Cryptology**

3 units - semester 2

Online, possibility of twice weekly lectures at North Terrace

Assessment: Details provided at start of semester

The first part of the course concentrates on linear codes, with topics including syndrome decoding, perfect codes and cyclic codes. The Hamming and Golay codes, and others, are discussed. The second part is an introduction to contemporary cryptology, including both symmetric and public key systems. Examples of cryptosystems



studied include the Data Encryption Standard and the RSA algorithm.

The course concludes with a selection of topics from authentication, identification and digital signatures.

## Dentistry

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### **DENT 6001EX/HO** **Contemporary Dental Practice A**

3 units - semester 1 or 2

Available for Non-Award Study

Assessment: Essays, scientific reports, multiple choice questions, treatment plans

An external study mode course which aims to review and update current concepts for all practitioner types in modern general dental practice. All candidates complete study in the areas of dynamics of the oral environment and non-surgical minimum intervention. Then candidates select four additional topics within their field of practice.

### **DENT 6002EX/HO** **Contemporary Dental Practice - Continuing**

0 units - semester 1 or 2

5 hours per week minimum

Restriction: Grad.Cert.Dentistry students only

Available for Non-Award Study

Prerequisite: DENT 6001/6071 Contemporary Dental Practice A/B

Assessment: Multiple choice questions, treatment plans, essays, scientific reports

This is the continuation of Contemporary Dental Practice A and B. Having completed dynamics of the oral environment and non-surgical minimum intervention, candidates select four additional topics within their field of practice.

### **DENT 6003EX/HO** **Basic and Applied Dental Sciences**

2 units - semester 1 or 2

Prerequisite: 6004HO Research Methods and Ethics

Assessment: Seminar presentation and participation

This course of seminars, which is presented online, aims to provide postgraduate students with a broad appreciation of current knowledge in the dental sciences and the links between research and clinical practice, and to enable students to become acquainted with research programs within the Dental School.

### **DENT 6004EX/HO** **Research Methods and Ethics**

2 units - semester 1 or 2

Assessment: Participation in seminar, short test in biostatistics, evaluation and written critique of given scientific paper

The course of seminars provides an appreciation of the scientific method and of ethics as well as practical aspects of biostatistics, experimental design, research methodology, laboratory safety and infection control, use

of computers and bibliographic databases, preparation of initial research proposal, evaluation of research papers, scientific writing and presentation of research findings. Where possible, the material presented will be selected to meet the specific requirements of the students enrolled.

### **DENT 6021EX/HO** **Adhesive Dentistry C**

2 units - semester 1 or 2

Assessment: May include written assessment, operative skills and case report or online seminar

This course covers both the theory and practice of adhesive dentistry. Students will use online readings and resources prior to attending a hands-on course. Topics covered include adhesive materials, bonding systems, mechanisms of adhesion of materials to teeth, and reasons for success and failure of adhesive restorations. A variety of current operative/restorative techniques will be explored including techniques for aesthetic dentistry.

### **DENT 6022EX/HO** **Advanced Restorative Dentistry C**

2 units - semester 1 or 2

Assessment: May include written assessment, operative skills and case report or online seminar

This course looks at recent trends in crown and bridge work including relevant dental materials. Topics covered include diagnosis and treatment planning for crown and bridge work, design of preparations, occlusion, impression materials, recording inter-maxillary relationships, fabrication and cementation of temporary restorations, and selection and manipulation of crown and bridge cements.

### **DENT 6023EX/HO** **Endodontics C**

2 units - semester 1 or 2

5 hours per week minimum

Restriction: Grad.Cert.Dentistry students only

Prerequisite: DENT 6001/6071 Contemporary Dental Practice A/B

Assessment: Multiple choice questions, treatment plans, essays, scientific reports

This course covers the diagnosis of pulpal and periapical conditions, emergency endodontic procedures, vital pulp therapy and non vital pulp therapy. Other areas explored include microbiology and immunology, instrumentation, medicaments and root filling techniques. Periapical surgery, management of traumatic injuries, bleaching and apexification will also be reviewed.

### **DENT 6024EX/HO** **High Caries Risk C**

2 units - semester 1 or 2

Assessment: May include written assessment, case report or online seminar

This course reviews the structure of dental hard tissues of tooth, current concepts in cariology including microbiology and the nature of saliva and its role. Both traditional and minimum intervention approaches to the management

of patients at high risk of caries are explored. The course also looks at practical assessment of caries risk including saliva testing, materials and products suitable for professional and home care, prevention, and short- and long-term care. Students have access to online resources and attend a four-day hands-on course during which they are encouraged to discuss cases.

### **DENT 6025EX/HO Implantology C**

2 units - semester 1 or 2

Assessment: May include written assessment, case report or online seminar

This course covers anatomy of the jaws, basic principles of osseointegration for the placement of single tooth implants, treatment of edentulous ridges, case selection, assessment of sites for implant placement and treatment planning.

### **DENT 6026EX/HO Orofacial Pain C**

2 units - semester 1 or 2

Assessment: May include written assessment, clinical skills and case report or online seminar

This course is designed to update the general practitioner in current concepts of craniomandibular disorders. The course will cover differential diagnosis of craniomandibular disorders, clinical examination, the sequellae of masticatory muscle hyperactivity and the progression from myogenous to arthrogenous dysfunction.

### **DENT 6027EX/HO Oral Pathology C**

2 units - semester 1 or 2

Assessment: May include seminar performance, clinical exercises & written assignments

This course reviews common topics in oral pathology that are of importance in daily practice. It aims to demonstrate their laboratory and clinical applications. The course is a combination of review presentations, interactive seminars and clinical demonstrations. Participants will need to complete readings prior to an intensive three day course. Participants are asked to bring along interesting or problem cases for discussion. Completion of the oral pathology study module will be an advantage to candidates

### **DENT 6028EX/HO Dento-Alveolar Surgery C**

2 units - semester 1 or 2

Assessment: May include written assessment, clinical skills and case report or online seminar

The course covers academic and clinical aspects of modern dento-alveolar surgery relevant to general dental practitioners including removal of impacted teeth. Readings and resources will be provided.

### **DENT 6029EX/HO Orthodontics C**

2 units - semester 1 or 2

Assessment: Seminar performance, multiple choice questions & written assignment

This course covers the principles of examination and orthodontic diagnosis including the use of cephalometrics and the application of clinical orthodontic treatment relevant to the general practitioner. Prior completion of the orthodontics learning module is recommended. Readings and resources will be provided.

### **DENT 6030EX/HO Periodontics C**

2 units - semester 1 or 2

Assessment: May include written assessment, clinical skills and case report or online seminar

This course is aimed at the general practitioner wishing to upgrade skills in diagnosis, treatment planning and simple surgical procedures. Prior completion of the learning module Periodontics for the General Practitioner is an advantage.

### **DENT 6031EX/HO Removable Prosthodontics Full C**

2 units - semester 1 or 2

Available for Non-Award Study

Assessment: May include written assessment, clinical skills and case report or online seminar

This course covers at an advanced level the management of edentulous patients. Students will undertake diagnosis and treatment planning for complete and immediate dentures and explore the evidence base for treatment options. Completion of the prosthodontic learning module would be an advantage.

### **DENT 6032EX/HO Removable Prosthodontics Partial C**

2 units - semester 1 or 2

Available for Non-Award Study

Assessment: May include written assessment, clinical skills and case report or online seminar

This course covers at an advanced level the management of partially edentulous patients. Students will undertake diagnosis and treatment planning for removable partial dentures and explore the evidence base for treatment options. Completion of the Prosthodontics learning module would be an advantage.

### **DENT 6033EX/HO Special Needs Dentistry C**

2 units - semester 1 or 2

Assessment: May include written assessment, clinical skills and case report or online seminar

This course will help students acquire an appreciation of reasonable treatment goals, dental management, and ethical and legal issues in relation to medically-challenged, intellectually-disabled, psychiatrically-disabled

and functionally-impaired aged patients, including patients requiring hospital management.

### **DENT 6034EX/HO**

#### **Dental Wear C**

2 units - semester 1 or 2

Assessment: May include written assessment, clinical skills and case report or online seminar

This course will involve an interdisciplinary approach to management of the worn dentition. Students will learn to identify and understand the nature of the forms of non-carious loss of tooth structure including erosion, attrition and abrasion. The course will focus on how to clinically assess patients, identify their risk factors and plan short and long-term management. Participants will be brought up to date with current research. Case discussions will be part of the course.

### **DENT 6035EX/HO**

#### **Contemporary Restorative Practice C**

4 units - semester 1 or 2

Available for Non-Award Study

Assessment: May include short written assignments, MCQs, participation in online discussions, interviews & technique exercises

This course is specifically designed for overseas-qualified dental practitioners preparing for entry to Bridging Dentistry, the examinations of the Australian Dental Council and/or studying toward a Graduate Certificate or Graduate Diploma. The theory and practice of current techniques in the basic clinical disciplines are covered. Topics include intra-oral radiography, local anaesthesia, current operative techniques, adhesive dentistry and endodontic techniques. Online and paper resources support student learning in addition to a week of hands-on technical exercises on campus.

### **DENT 6036EX/HO**

#### **Aesthetic Dentistry C**

2 units - semester 1 or 2

Assessment: May include written assessment, clinical skills and case report or online seminar

This course covers both the theory and practice of aesthetic dentistry. It explores new and existing techniques, case selection and treatment planning. Dental materials important to this discipline are also covered. Students have access to online resources and will need to complete key readings before attending an intensive hands-on course.

### **DENT 6037EX/HO**

#### **Panoramic Radiography C**

2 units - semester 1 or s2

Assessment: Written assessment, practical technical critique of approximately 20 panoramic images

This course covers both the theory and practice of film-based and digital panoramic radiology. Theory topics are supported by online resources and include tomography, radiographic anatomy, image formation, equipment and patient management. Students wishing to be licensed in

their own state should contact the relevant government authority and are likely to need access to supervised practice following the on-campus practical sessions.

### **DENT 6038EX/HO**

#### **Extra Oral Radiography C**

2 units - semester 1 or 2

Assessment: Written assessment, practical technical critique of approximately 20 panoramic images

This course is primarily aimed at dental auxiliaries requiring the skills to safely produce the extra-oral images associated with orthodontic practice: lateral cephalometric and hand-wrist films. Theory topics are supported by online resources include radiographic anatomy, image formation, equipment and patient management. Exercises in cephalometric tracing and age determination will also form part of the course. Students wishing to be licensed in their own state should contact the relevant government authority and may need access to supervised practice following the course. It is recommended that students also complete a course in panoramic radiography.

### **DENT 6039EX/HO**

#### **Dental Trauma C**

2 units - semester 1 or 2

Assessment: May include written assessment, clinical skills, case report or online seminar

This course explores a multidisciplinary approach to the management of dental trauma. In addition to emergency management in the field, this course includes the theory and practice of examination/assessment of the dental, oral and facial injuries, early dental management and endodontic treatment. The role of orthodontics, prosthodontics and other specialist disciplines in the short- and long-term management of dental trauma will also be covered. Students are supported by online reading material and resources.

### **DENT 6040EX/HO**

#### **Dental Laboratory Technology C**

2 units - semester 1 or 2

Check with School for Non-Award Study

Assessment: May include written assessment, technical skills or online seminar

This course is primarily aimed at practitioners requiring basic laboratory skills. It aims to review and update students in areas such as the laboratory stages of partial and full denture construction, denture repairs, production of mouthguards and ceramic techniques. Students are supported by online reading material and resources.

### **DENT 6058EX/HO**

#### **Advanced Dental Selective**

3 units - semester 1 or 2

Restriction: Graduate Diploma in Clinical Dentistry students only

Prerequisite: DENT 6055HO Dental Selective

Assessment: Satisfactory completion of chosen project

This course offers candidates the opportunity to undertake advanced dental studies in a number of areas. It can include completion of an essay, development of a website, preparation for the Royal Australasian College of Dental Surgeons Primary Examination or other approved selective projects.

### **DENT 6059EX/HO** **Advanced Dental Studies**

3 units - semester 1 or 2

Restriction: Graduate Diploma in Clinical Dentistry students only

Prerequisite: DENT 6056HO Dental Studies

Assessment: Satisfactory completion of research report or satisfactory completion of chosen project

To satisfactorily compete this course, candidates will be required to undertake either a small research project under supervision, or complete an alternative assignment(s) approved by the Graduate School Advisory Board.

### **DENT 6061EX/HO** **Maxillo-Facial Prosthetics C**

2 units - semester 1 or 2

Assessment: May include written assignments, MCQs, technical exercises & case report

This course is primarily aimed at practitioners with an interest in the area of maxillo-facial prosthetics. Topics will include head and neck anatomy, principles of implantology and prosthetic for the maxillo-facial region. Relevant dental materials will also be covered. Some experience in the fabrication of prostheses will be provided. Students are supported by online reading material and resources and are required to attend a four-day laboratory/clinical course on-campus.

### **DENT 6063EX/HO** **Pain Management C**

2 units - semester 1 or 2

Assessment: May include written assignments, MCQs, technical exercises & seminar presentation

This course is aimed at dental practitioners and auxiliaries with an interest in pain management in the dental surgery and the management of chronic pain in adults and children. Topics covered include physiology of pain, oral and dental pain pathways, local anaesthesia, relative analgesia, sedation and general anaesthesia, hypnosis, acupuncture, electrical anaesthesia, physical therapy, psychology, chronic pain and referral. Students will have some flexibility to focus on areas of interest. Students are supported by online reading material and resources and are required to attend a four-day clinical block on-campus.

### **DENT 6064EX/HO** **Oral Medicine C**

2 units - semester 1 or 2

Available for Non-Award Study

Assessment: May include written assignments, MCQs, case report

This course reviews common and important topics in oral medicine and demonstrates their laboratory and clinical applications. The course is a combination of review presentations, interactive seminars and clinical demonstrations. Students will be required to read key references and explore resources on MyUni prior to the course. Students are required to attend a three-day clinical block on-campus. They are encouraged to bring along interesting cases for discussion.

### **DENT 6065EX/HO** **Paedodontics C**

2 units - semester 1 or 2

Assessment: May include written assignments, MCQs, case report

The aim of this course is to equip practitioners with the information and skills to enjoy the rewards of treating children and those with special needs. Topics to be covered include: growth and development, treatment planning for paediatric and special needs patients, updates in pulp therapy, dental trauma and dental materials for the paediatric population, oral pathology and minor oral surgery, pharmacological and non-pharmacological behaviour management and treatment planning and treatment in the operating theatre. Assessment tools in special needs dentistry as well as speech pathology for dental practitioners will also be included. Students are required to attend a four-day preclinical course on-campus. Time will be set aside for participants discuss their own cases and treatment planning options.

### **DENT 6067EX/HO** **Dental Selective**

3 units - semester 1 or 2

Restriction: Graduate Diploma in Clinical Dentistry students only

Assessment: Satisfactory completion of research project or satisfactory completion of chosen project

This course offers candidates the opportunity to undertake advanced dental studies in a number of areas. It can include completion of an essay, development of a website, preparation for the Royal Australasian College of Dental Surgeons Primary Examination or other approved selective projects.

### **DENT 6068EX/HO** **Dental Studies**

3 units - semester 1 or 2

Restriction: Graduate Diploma in Clinical Dentistry students only

Assessment: 3 learning modules and participation in weekly seminars

To satisfactorily compete this course, candidates will be required to undertake either a small research project under supervision, or complete an alternative assignment(s) approved by the Graduate School Advisory Board.

## **DENT 6069EX/HO**

### **Clinical Studies**

4 units - semester 1 or 2

Restriction: Graduate Diploma in Clinical Dentistry students only

Assessment: Ongoing - clinical skills & patient management, patient presentations & viva voca exams

This course provides hands on experience in a number of clinical areas under the supervision of experienced clinicians in these areas. Seminar participation is required.

## **DENT 6070EX/HO**

### **Advanced Clinical Studies**

4 units - semester 1 or 2

Restriction: Graduate Diploma in Clinical Dentistry students only

Prerequisite: DENT 6057HO Clinical Studies

Assessment: Ongoing - clinical skills & patient management, patient presentations & viva voca exams

This course provides hands on experience in a number of clinical areas under the supervision of experienced clinicians in these areas. Seminar participation is required.

## **DENT 6071EX/HO**

### **Contemporary Dental Practice B**

3 units - semester 1 or 2

Restriction: Grad.Cert.Clinical Dentistry students

Available for Non-Award Study

This course is a continuation of Contemporary Dental Practice A. All candidates complete study in the areas of dynamics of the oral environment and non-surgical minimum intervention. Then candidates select four additional topics within their field of practice.

## **DENT 6072EX/HO**

### **Oral Sleep Medicine C**

2 units - semester 1 or 2

Short intensive course, approximately 24hrs contact time

Restriction: Graduate Certificate in Dentistry students only

Available for Non-Award Study

Maximum of 12 students

Assessment: Written assessment, technique work and case report

This course covers both the theory and practice of oral sleep medicine with particular emphasis on the provision of mandibular advancement splints (MAS) for obstructive sleep apnoea (OSA) and snoring. Students will use readings prior to attending a theory and hands-on course. Topics covered include understanding aspects of OSA including treatments such as CPAP, surgery and MAS and the range and mechanism of oral appliances that are available, understanding of Polysomnogram reports and the importance of a multidisciplinary approach to treating snoring and OSA.

## **DENT 7101HO**

### **MDS Research A**

4 units - semester 1 or 2

Assessment: Demonstration of progress within research project, submission of research proposal

Students will undertake a research project in their chosen area.

## **DENT 7102HO**

### **MDS Research B**

4 units - semester 1 or 2

Assessment: Demonstration of progress within research project, completion of literature review

Students will continue with a research project in their chosen area.

## **DENT 7103HO**

### **MDS Research C**

4 units - semester 1 or 2

Assessment: Demonstration of progress within research project, completion of experimental work

Students will continue with a research project in their chosen area.

## **DENT 7105HO**

### **MDS Research D**

4 units - semester 1 or 2

Assessment: Successful completion & submission of thesis

Students will continue with a research project in their chosen area.

## **DENT 8001AHO/BHO**

### **Research Methods, Experimental Design & Ethics**

4 units - full year

1 hour per week

Restriction: Doctor of Clinical Dentistry students only

Assessment: Short test in biostatistics, evaluation of short written critique of given scientific paper

The course of seminars provides an appreciation of the scientific method, and of ethics approval procedures, as well as practical aspects of biostatistics, experimental design, research methodology, laboratory safety and infection control, use of computers, internet, and bibliographic databases, preparation of Research Proposal, evaluation of clinical and research papers, scientific writing, and presentation of research findings. Where possible, the material presented will be selected to meet the specific requirements of the students enrolled, and the theory of evidence-based dentistry will be introduced.

## **DENT 8002AHO/BHO**

### **Common Topics in Dental Clinical**

4 units - full year

1 hour per week

Restriction: Doctor of Clinical Dentistry students only

Prerequisite: DENT 8001A/BHO

Assessment: Essay

The course of lectures and seminars aims to provide postgraduate students with a contemporary perspective of applied dental sciences, particularly topics in areas related to the candidate's field of study.

**DENT 8003AHO/BHO**  
**Interdisciplinary Seminars in Clinical Dentistry**

0 units - full year

1 hour per week

Restriction: Doctor of Clinical Dentistry students only

Prerequisite: DENT 8002A/BHO

Assessment: Presentation of clinical case

The course of seminars and case presentations aims to provide postgraduate students with a broad appreciation of current knowledge in other specialty areas, using topics and cases requiring a specialised, interdisciplinary approach. Special emphasis will be given to analysis of cases using an evidence based approach (see DENT 8001AHO/BHO Research Methods, Experimental Design, & Ethics).

**DENT 8004HO**  
**Doctor of Clinical Dentistry Research A**

6 units - semester 1

10 hours per week

Restriction: Doctor of Clinical Dentistry students

Assessment: Demonstration of progress within research project, submission of research proposal

Students will undertake a research project related to the discipline named on the degree.

**DENT 8005HO**  
**Doctor of Clinical Dentistry Research B**

6 units - semester 2

10 hours per week

Restriction: Doctor of Clinical Dentistry student

Prerequisite: DENT 8004HO

Assessment: Demonstration of progress within research project, completion of literature review

Students will continue a research project related to the discipline named on the degree.

**DENT 8006HO**  
**Doctor of Clinical Dentistry Research C**

6 units - semester 1

10 hours per week

Restriction: Doctor of Clinical Dentistry students

Prerequisite: DENT 8005HO

Assessment: Demonstration of progress within research project, completion of experimental work

Students will continue a research project related to the discipline named on the degree.

**DENT 8007HO**  
**Doctor of Clinical Dentistry Research D**

6 units - semester 1 or 2

10 hours per week

Restriction: Doctor of Clinical Dentistry students

Prerequisite: DENT 8006HO

Students will continue a research project related to the discipline named on the degree.

**DENT 8010AHO/BHO**  
**Specialist Clinical Dent-Max Facial Radiology VI**

8 units - full year

Restriction: Doctor of Clinical Dentistry students only

Corequisite: DENT 8001A/BHO

The range of knowledge required to pursue specialist training in Dento-Maxillo-Facial Radiology can be divided into four sections: Basic physics and equipment: the production of xrays, their properties and interactions which result in the formation of a radiographic image; Radiation protection: the protection of patients and dental staff from the harmful effects of xrays; Radiography: the techniques involved in producing the various radiographic images; Radiography: the interpretation of these radiographic images.

The course comprises advanced aspects of dental radiology, including biological sciences, radiological sciences, radiography and radiology with advanced work being undertaken in the related disciplines of oral pathology, oral diagnosis and oral medicine. Students will attend radiology clinics in the Adelaide Dental Hospital, Royal Adelaide Hospital, Flinders Medical Centre as well as private clinics.

**DENT 8011AHO/BHO**  
**Specialist Clinical Dent-Max Facial Radiology VII**

8 units - full year

Restriction: Doctor of Clinical Dentistry students only

Prerequisite: DENT 8010A/BHO

This course builds upon knowledge and clinical skills developed in DENT 8010AHO/BHO Specialist Clinical Dento-Maxillo Facial Radiology VI.

**DENT 8012AHO/BHO**  
**Specialist Clinical Dent-Max Facial Radiology**

24 units - full year

Restriction: Doctor of Clinical Dentistry students only

Prerequisite: DENT 8011 AHO/BHO

This course builds upon knowledge and clinical skills developed in DENT 8011AHO/BHO Specialist Clinical Dento-Maxillo Facial Radiology VII.

## **DENT 8030AHO/BHO** **Specialist Clinical Forensic Odontology VI**

8 units - full year

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Restriction: Doctor of Clinical Dentistry students only

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Corequisite: DENT 8001A/BHO

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History of forensic odontology. International legal systems and the coronial system. Relationship of the police to the practice of forensic odontology. Methods of investigation of civil and criminal matters. Preservation and recovery of dental evidence including forensic dental photography. Dental autopsy techniques and principles and practices of forensic dental identification. Interpretation of dental records. Single and multiple victim identification emphasising management, international protocols and cultural aspects. Computerisation in dental identification. Alternate methods of dental identification, including video and computer imaging in cranio-facial video superimposition. General principles of forensic pathology with emphasis on time of death, time since death, autopsy techniques and injury assessment. Interdisciplinary nature of forensic specialities. The scope and history of physical anthropology. Osteology and anatomy of the skull and face. Comparative anatomy and evolution. The importance of anthropology in disaster victim identification. General principles of oral pathology with particular emphasis on the structure of human skin, patterns of injury and healing. Analysis of biting patterns and forces of the masticatory system. Collection and preservation of bitemark evidence. Principles and techniques of bite mark investigations. Forensic report writing. Presentation of evidence in court. Occupational health and safety. Public speaking and community education in forensic odontology.

## **DENT 8031AHO/BHO** **Specialist Clinical Forensic Odontology VII**

8 units - full year

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Restriction: Doctor of Clinical Dentistry students only

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Prerequisite: DENT 8030AHO/BHO

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Corequisite: DENT 8001A/BHO

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History of forensic odontology. International legal systems and the coronial system. Relationship of the police to the practice of forensic odontology. Methods of investigation of civil and criminal matters. Preservation and recovery of dental evidence including forensic dental photography. Dental autopsy techniques and principles and practices of forensic dental identification. Interpretation of dental records. Single and multiple victim identification emphasising management, international protocols and cultural aspects. Computerisation in dental identification. Alternate methods of dental identification, including video and computer imaging in cranio-facial video superimposition. General principles of forensic pathology with emphasis on time of death, time since death, autopsy techniques and injury assessment. Interdisciplinary nature of forensic specialities. The scope and history of physical anthropology. Osteology and anatomy of the skull and face. Comparative anatomy and evolution. The importance of anthropology in disaster victim identification. General principles of oral pathology

with particular emphasis on the structure of human skin, patterns of injury and healing. Analysis of biting patterns and forces of the masticatory system. Collection and preservation of bitemark evidence. Principles and techniques of bite mark investigations. Forensic report writing. Presentation of evidence in court. Occupational health and safety. Public speaking and community education in forensic odontology.

## **DENT 8032AHO/BHO** **Specialist Clinical Forensic Odontology VIII**

24 units - full year

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Restriction: Doctor of Clinical Dentistry students only

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Prerequisite: DENT 8030AHO/BHO

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Corequisite: DENT 8001A/BHO

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History of forensic odontology. International legal systems and the coronial system. Relationship of the police to the practice of forensic odontology. Methods of investigation of civil and criminal matters. Preservation and recovery of dental evidence including forensic dental photography. Dental autopsy techniques and principles and practices of forensic dental identification. Interpretation of dental records. Single and multiple victim identification emphasising management, international protocols and cultural aspects. Computerisation in dental identification. Alternate methods of dental identification, including video and computer imaging in cranio-facial video superimposition. General principles of forensic pathology with emphasis on time of death, time since death, autopsy techniques and injury assessment. Interdisciplinary nature of forensic specialities. The scope and history of physical anthropology. Osteology and anatomy of the skull and face. Comparative anatomy and evolution. The importance of anthropology in disaster victim identification. General principles of oral pathology with particular emphasis on the structure of human skin, patterns of injury and healing. Analysis of biting patterns and forces of the masticatory system. Collection and preservation of bitemark evidence. Principles and techniques of bite mark investigations. Forensic report writing. Presentation of evidence in court. Occupational health and safety. Public speaking and community education in forensic odontology.

## **DENT 8050AHO/BHO** **Specialist Oral and Maxillofacial Surg. VI**

8 units - full year

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Restriction: Doctor of Clinical Dentistry students only

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Prerequisite: successful completion of Primary Examinations of Royal Australian College of Dental Surgeons, appointment to clinical training post, satisfactory progress with employment at Royal Adelaide Hospital

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Corequisite: DENT 8001A/BHO

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The course is designed to teach outpatient and inpatient clinical skills in oral and maxillofacial surgery to the basic surgical science levels. Students initially embark upon a course of study which bridges the teaching of anatomy between the undergraduate program for dentistry and medicine, in particular below clavical gross anatomy. Students are introduced to skills of medical practice, the scientific study of the processes of disease states

and the ethics of medicine. Emphasis will be placed on the acquisition of skills in clinical interviewing and communication as well as those required to elicit and record a clinical history and to perform a physical examination. Clinical data gathered at the bedside is to be interpreted in the context of a scientific understanding of the aetiology, pathophysiology and prognosis of common disease processes, aided where appropriate by information derived from laboratory and other diagnostic investigations. In the study of biomedical ethics, the student will be equipped with the conceptual tools to think clearly about ethical problems and reach sound ethical judgements in a clinical context. This course is usually taken over two years.

**DENT 8051AHO/BHO**  
**Specialist Oral and Maxillofacial Surgery**

8 units - full year

Restriction: Doctor of Clinical Dentistry students only

Prerequisite: DENT 8050A/BHOI; MBBS & BDS degrees

The course covers all academic and clinical aspects of modern Oral and Maxillofacial Surgery. This includes dento alveolar surgery, maxillofacial injuries, preprosthetic surgery including implants, orthognathic surgery, temporomandibular joint surgery and aspects of cleft surgery and head and neck oncology.

**DENT 8052AHO/BHO**  
**Specialist Oral and Maxillofacial Surgery VIII**

24 units - full year

Restriction: Doctor of Clinical Dentistry students only

Prerequisite: DENT 8051A/BHO

Corequisite: DENT 8001A/BHO

This course builds upon knowledge and clinical skills developed in DENT 8051AHO/BHO Specialist Oral & Maxillofacial Surgery VII.

**DENT 8090AHO/BHO**  
**Specialist Paediatric Dentistry VI**

8 units - full year

Restriction: Doctor of Clinical Dentistry students only

Corequisite: DENT 8001A/BHO R

Assessment: Assignments, case presentations, clinical performance & written exam

This course involves a series of seminars, assigned readings and registrar-prepared assignments on the basic sciences which form the basis of the specialty and the clinical aspects of the specialty. Students are introduced to the clinical management of dental problems in children and adolescents including an introduction to the dental management of children with medically compromising conditions. At the conclusion of this subject students should have acquired the following generic skills: Have an advanced understanding of the changing knowledge base in paediatric dentistry; Be able to evaluate and synthesise the research and professional literature in the field of paediatric dentistry; Have the capacity to manage competing demands on time, including self-directed project work, and the capacity to value and participate in

projects, which require teamwork; Have the capacity to engage where appropriate with issues in contemporary society; Have well-developed problem-solving abilities in the area of paediatric dentistry that are characterised by a flexible approach; Well-developed problem-solving abilities in the area of paediatric dentistry that are characterised by a flexible approach; Advanced competencies in areas of professional expertise relevant to paediatric dentistry; A broad understanding of the international context and sensitivities involved in the area of paediatric dentistry.

**DENT 8091AHO/BHO**  
**Specialist Paediatric Dentistry VII**

8 units - full year

Restriction: Doctor of Clinical Dentistry students only

Prerequisite: DENT 8090A/BHO

Corequisite: DENT 8001A/BHO

Assessment: Assignments, case presentations, clinical proficiency, written exams

This course involves a series of seminars, assigned readings, assignments and case presentations on clinical aspects of the specialty. Students will also be involved in the clinical management at an advanced level of children and adolescents with a wide variety of clinical dental problems including those complicated by medical compromise. At the conclusion of this course students should have acquired the following generic skills: A superior capacity to articulate their knowledge and understanding in oral and written presentations; An understanding of the significance and value of their knowledge to the wider community (including business and industry); The capacity to engage where appropriate with issues in contemporary society; Professional knowledge and skills in child and adolescent welfare and management; Highly-developed problem-solving abilities in the area of paediatric dentistry that are characterised by a flexible approach; The ability to offer leadership in the area of paediatric dentistry; The capacity to value and participate in projects which require teamwork; An understanding of the significance and value of their knowledge to the wider community (including business and industry).

**DENT 8092AHO/BHO**  
**Specialist Paediatric Dentistry VIII**

24 units - full year

Restriction: Doctor of Clinical Dentistry students only

Prerequisite: DENT 8091A/BHO

Corequisite: DENT 8001A/BHO s

Assessment: Clinical performance, completion of patient log book, written & oral exams

This course involves a series of seminars, assigned readings, assignments and case presentations on clinical aspects of the specialty. Students will be involved with the clinical management at a specialist level of children and adolescents with a wide variety of clinical dental problems. At the conclusion of this course, students should have acquired the following generic skills: advanced skills and techniques applicable to the discipline of paediatric dentistry; the ability to provide leadership in paediatric



dentistry; a superior capacity to articulate their knowledge and understanding in oral and written presentations; advanced understanding of the international context and sensitivities of the specialist area.

### **ODONT 6008AHO/BHO** **Casework in Forensic Odontology**

6 units - full year

Supervision as required

Restriction: Grad.Dip.Forensic Odont. students only

Assessment: Casework performance, case-book, seminar presentation, essay, viva

This course will require students to participate in routine casework undertaken by the Forensic Odontology Unit. Students will perform and report on casework, including Coronial oral autopsies, bitemark examinations and age estimations. Preparation of case records and reports will be required for all cases. Attendance at the city mortuary and Courts of Law is required.

### **ODONT 6012HO** **Principles and Methods of Forensic Odontology**

6 units - semester 1

2 hour seminar per week

Restriction: Grad.Dip.Forensic Odont. students only

Assessment: Seminar participation, essay

This course covers areas such as: history and role of forensic odontology in community dentistry, legal systems and role and jurisdiction of Courts of Law, the coronial system and practice of the Coroner's Office, expert evidence, methods of investigation of civil and criminal matters, relationship of police to forensic odontology, preservation and recovery of dental evidence from scenes, principles and techniques of video and computer imaging in cranio-facial superimposition, age estimation techniques, procedures for investigation of bitemarks and the principles of disaster victim identification.

### **ODONT 6014AHO/BHO** **Forensic Odontology Research**

4 units - full year

Restriction: Grad.Dip.Forensic Odont. students only

Assessment: Seminar presentation, research report

Students will undertake a small research project in an aspect of Forensic Odontology or related discipline.

### **ODONT 6015HO** **Integrated Forensic Science**

6 units - semester 2

Restriction: Grad.Dip.Forensic Odont. students only

Assessment: Seminar presentation, essay

Highlights the interdisciplinary nature of forensic science. This subject aims to introduce the students to the range of forensic disciplines used by police and legal services. The student will develop an understanding of the overall management of a crime investigation, and an awareness of the place of forensic odontology in an investigation. The importance of teamwork will be emphasised.

## **Design Studies**

### **DESST 6018** **Technology in Design IV**

6 units - semester 1

Up to 6 hours per week including lectures, studios and tutorials

Restriction: Grad.Dip.Des.St. students only

Quota will apply

Incompatible: DESST 6016

Assessment: Assignments (design development stages of major design projects) typically 50%, final assignments typically 35%, exercises typically 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 encourage 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 6020** **Design for Sustainable Community IV**

6 units - semester 1

Up to 6 hours lectures/seminar/studios/tutorials per week, field camp may be required.

Restriction: Grad.Dip.Des.St, Grad.Dip.Des.St.(Land.) students only

Quota will apply

Incompatible: DESST 6013 or DESST 6020

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 6021** **Natural and Landscape Systems IV**

6 units - semester 1

Up to 6 hours lectures/seminar/tutorials per week

Restriction: Grad.Dip.Des.St.(Land.) students only

Quota will apply

Incompatible: DESST 6017

Assessment: Assignments, presentations, posters, folios, field reports

This course provides an introduction to: the concept of systems thinking, including 'natural' and human-made systems with an emphasis upon the built environment context; sciences of landscape, climate, biology, ecology, wetlands, arid landscapes, soil and water eco-units; particular characteristics of Australian and local 'natural' systems; relationship between 'natural' systems and design/construction as well as their impacts on each other; and the concept of sustainability of environmental systems. The course also provides an introduction to the notion of different stakeholders in natural and constructed environments, their needs and aspirations. The course develops effective communication skills especially through oral presentation with appropriate visual aids, and written communication following academic protocols.

## **DESST 6022** **Architecture Design Studio IV**

6 units - semester 2

Up to 6 hours lectures/digital studio per week

Restriction: Grad.Dip.Des.St. students only

Quota will apply

Assumed Knowledge: DESST 6018, DESST 6020

Incompatible: DESST 6002

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 6023** **Landscape Architecture Design Studio IV**

6 units - semester 2

Up to 6 hours lectures/studios/workshops per week; field camp may be required.

Restriction: Grad.Dip.Des.St. (Land.) students only

Quota will apply

Assumed Knowledge: DESST 6018, DESST 6020

Incompatible: DESST 6012

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 6024** **Architecture Histories and Theories IV**

3 units - semester 2

3 hours lectures and tutorials

Restriction: DESST 6019

Quota will apply

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 6025** **Landscape Architecture Histories and Theories IV**

3 units - semester 2

3 hours of lectures and tutorials

Restriction: DESST 6019

Quota will apply

Assessment: Essays typically 50%, tutorial presentations typically 20%, quizzes typically 10%, online discussion boards typically 20%

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.

## Design Studies (Digital Media)

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### DESSTDM 7004

#### Design with Digital Media Masters Project

12 units - semester 1 or 2

Contact hours vary

Restriction: M.Des.St.(DM), M.Des.Dig.Med. students only

Prerequisite: all required courses in Grad.Dip.Des.St.(DM) or Grad.Dip.Design in Digital Media

Assessment: Assignments/projects

This course comprises an individual or group culminating design, planning and/or research project that addresses an aspect of design, professional practice or design education in the context of digital media. Students will negotiate with the course coordinator a topic that reflects their own particular interests and the mode of digital and/or printed submission that is to be adopted.

### DESSTDM 7006

#### Interactivity in Design with Digital Media

6 units - semester 1

Contact hours vary - periods of intensive group contact & periods of less frequent individual tutorials

Restriction: Design in Digital Media students

Corequisite: ARCHDM 7007

Incompatible: DESSTDM 7002

Assessment: Projects and digital journal

This course applies concepts of rules, grammar and contingency to the design of virtual places. It explores ways in which web sites, game engines, and virtual worlds allow different ways of exploring data and space with and without symbolic human presence as avatars. Typical projects include the design and production of web sites and interactive virtual worlds.

### DESSTDM 7007

#### Representation in Design with Digital Media

6 units - semester 2

Contact hours vary - periods of intensive group contact and periods of less frequent individual tutorials

Restriction: Design in Digital Media students

Corequisite: DESSTDM 7008

Incompatible: DESSTDM 7003

Assessment: Projects and digital journal

This course focuses on the interrelationship of abstraction, modification and realism in the making and representation of art and design with digital media. As with traditional media, effective representations of existing or proposed scenes and objects often seek to abstract the 'essentials' and emphasise them rather than

mirror reality. Conversely, apparent effects of realism can be achieved by accentuating visual phenomena. Issues of accuracy, authenticity and authorship arise, most obviously in the digital manipulation of images. The course examines these issues while developing skills in surface representation, lighting simulation and effects, and the art and design concepts of making series and derivations. Typical projects include two-dimensional animation, collage and image processing for digital construction.

### DESSTDM 7008

#### Narrative in Design with Digital Media

6 units - semester 2

Contact hours vary - periods of intensive group contact & periods of less frequent individual tutorials

Restriction: Design in Digital Media students only

Corequisite: DESSTDM 7007

Incompatible: DESSTDM 7003 D

Assessment: Projects and digital journal

This course focuses on the 'telling of stories' through the separate and combined use of still image sequences and animation. The course emphasises techniques of creative direction and control while developing skills in typical narrative and moving image software, including post production software and associated sound as well as visual editing. Typical projects are storyboards, character development, multiple image 'slide shows' and short animations.

## Economics

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### ECON 7001

#### Topics in Applied Econometrics IIID

3 units - semester 1

2 lectures, 1 tutorial a week

Prerequisite: ECON 7051 or equiv

Assessment: Typically a final exam, tutorial participation, project

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 7009** **Advanced Mathematical Economics (H)**

4 units - semester 1

2-hour lecture a week

Assumed Knowledge: ECON 2005 or ECON 7075; ECON 3034 or ECON 7096

Assessment: Typically weekly assignments, mid-semester exam and final exam

This course deals with dynamic analysis in economic models. The main technical tools are dynamic optimisation and optimal control theory. Some familiarity with multivariable calculus and some knowledge of integrals are desirable. A sound knowledge of intermediate microeconomics is also expected.

The first part will be spent on dynamic optimisation with economic applications, such as in resource economics, financial economics as well as welfare economics and social choice. Models taught in this course provide examples of possible models for a society's social choice for an allocation that maximises welfare and utilisation of resources. The second part will deal with optimal control theory with economic applications, such as in financial economics and resource economics, including modeling financial investment with growth and risk management of natural resources.

## **ECON 7011** **Intermediate Microeconomics IID**

3 units - semester 1 or 2

2 lectures, 1 tutorial a week

Assumed Knowledge: Introductory microeconomics

Assessment: Typically mid semester exam, final exam

This course builds on the microeconomic principles studied in the Level I Economics courses and provides an analysis of the way in which the market system functions as a mechanism for coordinating the independent choices of individual economic agents. It develops a basis for evaluating the efficiency and equity implications of competition and other market structures, and a perspective on the appropriate role of government. Included are the study of consumer choice, production and cost, market structure, and market failure. The course provides a smooth transition for those intending to pursue microeconomics at the professional level, and is a precursor to completion of either the Graduate Certificate or Master of Applied Economics.

## **ECON 7016** **Resource & Environmental Economics IID**

3 units - semester 2

2 lectures, 1 tutorial per week

Assumed Knowledge: ECON 7011

Assessment: Typically a 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 7022** **Econometric Theory IIID**

3 units - semester 2

2 lectures, 1 tutorial per week

Prerequisite: Credit standard in ECON 7051 or equiv

Assumed Knowledge: Intermediate Microeconomics & Macroeconomics, ECON 7216 or ECON 7075 or equiv

Incompatible: Not permitted with ECON 7001

Assessment: Typically tutorial work, mid-semester exam and final exam

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 7024** **Special Topics (H)**

4 units - semester 2

2 lectures, 1 tutorial a week

Assessment: Determined in consultation with students

This course will cover selected topics which are not currently covered elsewhere in the Economics curriculum at level IV. The selection of topics will depend on the availability of staff, including visitors, and on their teaching and research interests.

## **ECON 7025** **Microeconomic Theory (H)**

4 units - semester 1

2 hour lecture, 1 hour workshop per week

Prerequisite: ECON 7096 or equiv

Assessment: Typically 2 assignments, final exam

This course gives an overview over basic microeconomic theory. Neoclassical consumer theory, producer theory, and equilibrium are covered in of the first half of the course. Monopoly and basic game theory (mainly with applications to industrial organization) are covered in the second six weeks. The games included are static and dynamic games of complete information and static games of incomplete information. All topics are treated mathematically. A basic knowledge of multivariate calculus and optimisation is essential.

## **ECON 7032** **Public Economics IIID**

3 units - semester 1

2 lectures, 1 tutorial a week

Assumed Knowledge: ECON 7011

Assessment: Typically a mid semester test and 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 globalization, networks, the Internet economy. Due attention is given to innovation, transaction costs, antitrust issues, and the nonprofit private sector, all of which are essential to understanding the role and tasks of the public sector.

## **ECON 7036** **International Trade and Investment Policy IID**

3 units - semester 2

2 lecturers, 1 tutorial per week

Assumed Knowledge: Introductory level microeconomics

Assessment: Typically mid-term test, final exam, tutorial presentations

This course examines the interactions between economic, political, strategic, and legal aspects of international trade and investment policies at national, regional and global levels. This includes the ways in which WTO members affect and are affected by regional and multilateral trade and economic integration agreements. The effects of trade and investment policy on the efficiency of resource use, on income distribution, and on national and global trade and economic welfare are analysed using trade theories and models of international trade and investment.

## **ECON 7044** **International Finance IIID**

3 units - semester 2

2 lectures, 1 tutorial a week

Assumed Knowledge: ECON 7011, ECON 7071

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 7050** **International Economic History IIID**

3 units - semester 1

2 lectures, 1 tutorial per week

Assumed Knowledge: ECON 7011, ECON 7071 (one may be taken concurrently)

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 7051** **Intermediate Econometrics IID**

3 units - semester 1 or 2

2 lectures, 1 tutorial per week

Assumed Knowledge: Introductory statistics, microeconomics and macroeconomics

Assessment: Typically tutorial participation, mid semester exam, 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 7052** **East Asian Economies IID**

3 units - semester 2

2 lectures, 1 tutorial

Available for Non-Award Study

Assumed Knowledge: Introductory level Microeconomics & Macroeconomics or Asian Studies, or equiv

Assessment: Typically tutorial work, essay, final exam

This course is designed to introduce students to the nature and structure of the economies of East Asia. The course is divided into two parts. The first half will be more "technical" in nature, focusing on the macroeconomics and growth of the region as whole. The second part is more "interdisciplinary" in nature, emphasising the historical, political and cultural setting as well as economic forces that have shaped the development of their economic institutions. The contribution of these institutions to economic growth will also be closely

examined. The course is jointly taught by staff from the School of Economics and the Centre for Asian Studies. Economics background is not a prerequisite for this course. This course is suitable to students majoring in development studies, international studies, politics, commerce, Asian Studies as well as economics, who wish to give an East Asian Economies focus to their own field of study.

### **ECON 7053 Long Run Growth (H)**

4 units - semester 2

2 hour lecture a week

Restriction: students are advised to consult Lecturer in Charge

Assessment: mid-term essay, final exam

This course examines the evidence of, and leading explanations for, economic growth in the advanced countries over the long run. Both historians' and economists' contributions to the analysis of economic growth are considered, but emphasis is placed on the enhanced insight which may be derived from historical inquiry. Topics covered include a survey of economists' writings on growth and convergence; case studies of long run growth and decline (including Britain, the US south, Argentina); and wider perspectives on growth (including the role of natural resources, technology, institutions, interest groups, and cultural factors).

### **ECON 7055 International Trade (H)**

4 units - semester 2

2 hour lecture a week

Assumed Knowledge: ECON 7011, ECON 7071 or ECON 7072

Assessment: Typically project, final exam

This course seeks to provide the tools necessary to obtain a clear understanding of what determines the way international trade patterns evolve through time as economies grow. That requires drawing on and strengthening our knowledge of (a) trade and growth theories, (b) the economics and political economy of foreign trade and investment policies, and (c) quantitative modelling of global trade flows.

### **ECON 7056 International Finance (H)**

4 units - semester 1

2 hour lecture a week

Prerequisite: ECON 7011, ECON 7071 or ECON 7044

Assessment: Typically mid-semester exam, final exam

This course builds on the topics covered in International Finance IIID. Topics covered include exchange rate regimes including the pros and cons of free floating, fixed exchange rates and hard pegs such as dollarisation and currency boards. The course then deals with properties of the east-Asian dollar standard, the roles of China and Japan; the Euro and the outlook for growing global financial imbalances between the US and the rest of the world.

### **ECON 7058 Development Economics IIID**

3 units - semester 1

2 lectures, 1 tutorial per week

Assumed Knowledge: ECON 7011 and ECON 7071

Assessment: Typically mid-semester exam, tutorial work, large assignment and 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, trade, industrialisation, foreign aid and investment, poverty and income distribution, agricultural development and relevant growth theories.

### **ECON 7059 Macroeconomics A(H)**

4 units - semester 1

2 hour lecture a week

Prerequisite: ECON 7096 or equiv

Assessment: Typically mid semester exam, final exam

This course serves as an introduction to more advanced methods and theories. Techniques include a more formal treatment of comparative statics, dynamics and stability analysis and will involve matrix algebra as well as simple differential and difference equations. Topics include extensions to some familiar models such as IS-LM, AD-AS or Mundell-Fleming; a more formal application of the rational expectations hypothesis in a variety of contexts and an introduction to developments in growth theory.

### **ECON 7062 Strategic Thinking IIID**

3 units - semester 2

2 hour lecture, 1 hour workshop per week

Assumed Knowledge: ECON 7075

Assessment: Assignments, final exam

This course provides an introduction to Game Theory. Game Theory is a mathematical framework which makes possible the analysis of the decision making process of interdependent subjects. It is aimed at explaining and predicting how individuals behave in a specific strategic situation, and therefore help improve decision making. A situation is strategic if the outcome of a decision problem depends on the choices of more than one person. Most decision problems in real life are strategic.

The course will explain in depth the standard equilibrium concepts (such as Nash Equilibrium, Subgame-Perfect Nash Equilibrium, and others) in Game Theory. To illustrate the concepts, real-world examples, case studies, and classroom experiments might be used.

### **ECON 7065 Public Economics (H)**

4 units - Not on offer in 2009

2 hour lecture, 1 hour workshop per week

Assumed Knowledge: ECON 7025

Assessment: Typically assignments, final exam

This course deals with more recent advances in Public Economics. The course has two main parts: Regulation and Taxation under Incomplete Information and Political Economy. In the first part we explore how governments that are seeking to maximize social welfare should regulate and tax industries if firms have private information about some of their characteristics. Contract theoretical tools are developed in order to analyse this. In the second part we cover topics in modern Political Economy Theory. Covered topics may include: Lobbying, corruption, the role of constitutions, and public choice.

### **ECON 7067 Economic Development**

3 units - Not available in 2009

2 hour lecture a week

Assumed Knowledge: ECON 7096 or ECON 7058

Assessment: Typically major assignment, final exam

This course will focus on the theories of economic growth and the structural features that are typical of developing countries. The aim is to provide students with an economic understanding of the origins of uneven patterns of growth and development, as well as an understanding of policies that can be applied in developing countries and how we can measure their effectiveness. The course will examine a number of current theoretical and applied topics from development economics research. The course has a strong applied focus. The students will apply the frameworks of microeconomics and macroeconomics to the key economic problems in developing countries, and apply their knowledge of econometrics to articles that conduct quantitative analysis.

### **ECON 7070 Labour Economics IIID**

3 units - semester 1

2 lectures, 1 tutorial per week

Assumed Knowledge: ECON 7011

Assessment: Typically combination of mid-term, 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; the demand for labour in competitive and non-competitive markets; the determination of equilibrium wages; wage discrimination; labour unions; and policies such as minimum wage laws, welfare reform, and trade.

### **ECON 7071 Intermediate Macroeconomics IID**

3 units - semester 1 or 2

2 lectures, 1 tutorial per week

Assumed Knowledge: Introductory macroeconomics

Assessment: Typically mid semester exam and final exam

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 7072 International Trade IIID**

3 units - semester 1

2 lectures, 1 tutorial per week

Assumed Knowledge: ECON 7071, ECON 7011

Assessment: Typically mid semester test, final exam

This course deals with the theory and practice of international trade and of trade-related policies. It focuses on analysing the gains from trade, the changing patterns of trade, the income distributional consequences of liberalising foreign trade, the relationship between trade, investment, and economic growth, and the reasons for and consequences of trade policies.

### **ECON 7074 Business and Economic Statistics ID**

3 units - semester 1 or 2

2 lectures, 1 tutorial per week

Assumed Knowledge: Basic algebra & calculus

Assessment: Typically tutorial work, mid semester test, 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 7075 Mathematical Economics IID**

3 units - semester 1

2 lectures, 1 tutorial per week

Assumed Knowledge: Introductory principles of microeconomics & macroeconomics

Assessment: Typically test, final exam

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.

## **ECON 7077** **Economic Development (H)**

4 units - Not available in 2009

2 hour lecture a week

Assumed Knowledge: ECON 7096 or ECON 7058

Assessment: Typically major assignment, final exam

This course will focus on the theories of economic growth and the structural features that are typical of developing countries. The aim is to provide students with an economic understanding of the origins of uneven patterns of growth and development, as well as an understanding of policies that can be applied in developing countries and how we can measure their effectiveness. The course will examine a number of current theoretical and applied topics from development economics research. The course has a strong applied focus. The students will apply the frameworks of microeconomics and macroeconomics to the key economic problems in developing countries, and apply their knowledge of econometrics to articles that conduct quantitative analysis.

## **ECON 7084** **Master of Applied Economics Dissertation**

12 units - semester 1 or 2

2-hour workshop

Restriction: M.App.Ec. students only; students are advised to consult the Academic Program Coordinator

Assessment: Dissertation

Each student is to undertake an individual research project that exhibits original investigation, analysis and interpretation. Length of dissertation will be determined in conjunction with the candidate's Supervisor and the Academic Program Coordinator.

## **ECON 7086** **Advanced Macroeconomics**

3 units - semester 2

2 hour lecture per week

Prerequisite: ECON 7059 or ECON 7122

Assessment: Typically assignments, mid semester exam, final exam

This course presents an in depth analysis of modern macroeconomic theory. The course provides an advanced overview of the field as well as a rigorous analysis of the field's foundations. Students who do not necessarily intend to specialise in macro-economics are thereby exposed to the most up to date theories, while those students who plan to pursue higher research in macro-economics are well equipped with the latest techniques and know how. Topics to be discussed include: Why are some countries so rich while others are so poor? Why and how do countries grow? What are the sources of business cycles? What are the sources of inflation and unemployment? And what is the role of government policy in all of this?

## **ECON 7087** **Advanced Microeconomic Theory**

3 units - semester 2

2 hour lecture and 2 hour workshop per week

Prerequisite: ECON 7025 or ECON 7121

Assessment: Typically assignments, final exam

This course deals with more recent advances in microeconomic theory with emphasis on non-cooperative game theory and its applications, transactions in which asymmetric information plays a role and the theory of market failure. Topics to be covered may include some or all of the following: static and dynamic models of oligopoly, adverse selection, signaling games, principal agent problems and general equilibrium theory.

## **ECON 7096** **Economic Theory IIID**

3 units - semester 2

2 lectures, 1 tutorial per week

Prerequisite: ECON 7011, ECON 7071 or equiv

Assessment: Typically mid-semester test, final exam

This subject presents an introduction to the advanced treatment of economic theory covered in ECON 7071 and ECON 7011. The focus will be advanced analytical techniques. Topics covered may include general equilibrium, open economy models, advanced analysis of the role of wealth, expectations, monetary and fiscal policy, game theory, choice under uncertainty, insurance markets and risky assets. The course provides a smooth transition for those intending to pursue economics at the professional level.

## **ECON 7100** **International Finance IV**

3 units - semester 1

2-hour lecture a week

Prerequisite: ECON 7011, ECON 7071 or ECON 7044

Assessment: Typically mid-semester exam, final exam

This course deals with the analysis of two important and related issues in open economies: the exchange rate and the capital flows. The objectives of the course are two-fold: 1) to introduce main concepts, principles and models in the theory and empirical studies in those two key areas of International Finance; 2) to apply the analytical tools to understand the relevant policy issues in the global markets.

## **ECON 7102** **International Trade**

3 units - semester 2

2-hour lecture a week

Prerequisite: ECON 7011, ECON 7071 or ECON 7072

Assessment: Typically mid-semester exam, final exam

This course seeks to provide the tools necessary to obtain a clear understanding of what determines the way international trade patterns evolve through time as economies grow. That requires drawing on and



strengthening our knowledge of (a) trade and growth theories, (b) the economics and political economy of foreign trade and investment policies, and (c) quantitative modelling of global trade flows.

### **ECON 7103** **Labour Economics**

3 units - semester 2

Assumed Knowledge: ECON 7096 and ECON 7001

Assessment: Typically two mid-terms, research proposal

This seminar-style course is designed to engage students in the advanced study of labour markets. After completing the course, students will be able to critically evaluate the current literature and propose research designs of their own. The course will focus on recent empirical applications and tests of theoretical predictions. Sessions will be organised in a round table format. Topics will include: the supply of labour and its interaction with health status; the accumulation of general and job-specific human capital; the demand for labour in competitive and non-competitive markets; the determination of equilibrium wages including search models and provision of fringe benefits; identification of wage discrimination; minimum wage laws; and labour mobility/migration.

### **ECON 7104** **Labour Economics (H)**

4 units - semester 2

2-hour lecture

Assumed Knowledge: ECON 7096 and ECON 7001

Assessment: Typically combination of project, final exam

This seminar-style course is designed to engage students in the advanced study of labour markets. After completing the course, students will be able to critically evaluate the current literature and propose research designs of their own. The course will focus on recent empirical applications and tests of theoretical predictions. Sessions will be organised in a round table format. Topics will include: the supply of labour and its interaction with health status; the accumulation of general and job-specific human capital; the demand for labour in competitive and non-competitive markets; the determination of equilibrium wages including search models and provision of fringe benefits; identification of wage discrimination; minimum wage laws; and labour mobility/migration.

### **ECON 7106** **Long Run Growth**

3 units - semester 2

2 hour lecture a week

Restriction: students are advised to consult lecturer in charge

Assessment: Mid-term essay, final exam

This course examines the evidence of, and leading explanations for, economic growth in the advanced countries over the long run. Both historians' and economists' contributions to the analysis of economic growth are considered, but emphasis is placed on the enhanced insight which may be derived from historical inquiry. Topics covered include a survey of economists'

writings on growth and convergence; case studies of long run growth and decline (including Britain, the US south, Argentina); and wider perspectives on growth (including the role of natural resources, technology, institutions, interest groups, and cultural factors).

### **ECON 7108** **Master of Economics Research Project A**

6 units - semester 1 or 2

2-hour workshop

Restriction: M.Ec.(Coursework) students only

Assessment: Project - approx. 10000 words

Each student is to undertake an individual research project that exhibits original investigation analysis and interpretation.

### **ECON 7109** **Master of Economics Research Project B**

3 units - semester 1 or 2

Restriction: M.Ec.(Coursework) students only

Assessment: Project - approx. 5000 words

Each student is to undertake an individual research project that exhibits original investigation analysis and interpretation.

### **ECON 7110** **Advanced Mathematical Economics IV**

3 units - semester 1

2 hour lecture a week

Assessment: Typically weekly assignments, mid-semester exam and final exam

This course deals with dynamic analysis in economic models. The main technical tools are dynamic optimization and optimal control theory. Some familiarity with multivariable calculus and some knowledge of integrals are desirable. A sound knowledge of intermediate microeconomics is also expected.

The first part will be spent on dynamic optimization with economic applications, such as in resource economics, financial economics as well as welfare economics and social choice. Models taught in this course provide examples of possible models for a society's social choice for an allocation that maximizes welfare and utilization of resources. The second part will deal with optimal control theory with economic applications, such as in financial economics and resource economics, including modeling financial investment with growth and risk management of natural resources.

### **ECON 7114** **Money, Banking and Financial Markets IIID**

3 units - semester 1

2 lectures, 1 tutorial per week

Assumed Knowledge: ECON 7071 or equiv

Assessment: Typically 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). This course provides a smooth transition for those intending to pursue economics at the professional level.

### **ECON 7115 Public Economics**

3 units - semester 2

2 hour lecture

Assumed Knowledge: ECON 7025

Assessment: Typically assignments, final exam

This course deals with more recent advances in Public Economics. The course has two main parts: Regulation and Taxation under Incomplete Information and Political Economy. In the first part we explore how governments that are seeking to maximise social welfare should regulate and tax industries if firms have private information about some of their characteristics. Contract theoretical tools are developed in order to analyse this. In the second part we cover topics in modern Political Economy Theory. Covered topics may include: Lobbying, corruption, the role of constitutions, and public choice.

### **ECON 7117 Reading Topics A**

3 units - semester 1 or 2

Restriction: M.Ec.(Coursework) students only

This course will cover selected topics in Economics. The topics offered each year will depend on the availability of staff, including visitors, and their research interests.

### **ECON 7118 Reading Topics B**

3 units - semester 1 or 2

Restriction: M.Ec.(Coursework) students only

This course will cover selected topics in Economics. The topics offered each year will depend on the availability of staff, including visitors, and their research interests.

### **ECON 7122 Macroeconomics IV**

3 units - semester 1

2 hour lecture

Prerequisite: ECON 7096 or equiv

Assessment: Typically mid semester exam, final exam

This course serves as an introduction to more advanced methods and theories. Techniques include a more formal treatment of comparative statics, dynamics and stability analysis and will involve matrix algebra as well as simple differential and difference equations. Topics include

extensions to some familiar models such as IS-LM, AD-AS or Mundell-Fleming; a more formal application of the rational expectations hypothesis in a variety of contexts and an introduction to developments in growth theory.

### **ECON 7123 Special Topics in Economics**

3 units - semester 2

Restriction: M.Ec.(Coursework) students only

This course will cover selected topics in Economics. The topics offered each year will depend on the availability of staff, including visitors, and their research interests.

### **ECON 7126 Master of Applied Economics International Dissertation**

12 units - semester 1 or 2

2-hour workshop

Restriction: M.App.Ec. (Int.) students only; students are advised to consult the Academic Program Coordinator

Assessment: Dissertation

Each student is to undertake an individual research project that exhibits original investigation, analysis and interpretation. Length of dissertation will be determined in conjunction with the candidate's Supervisor and the Academic Program Coordinator.

### **ECON 7141 Challenges Facing Economic Policy Makers**

4 units - semester 1 or 2

2 hour lecture per week

Restriction: M.App.Ec. & M. App. Ec. (International) students only

Assessment: Typically mid semester exam and final exam

The course deals with controversial aspects of economic policy faced by governments. The course will examine the economics of policy reform and policy change, and the public and private interest explanations of policy choices. Topics of application of this framework will range across industry level issues to monetary, fiscal, exchange rate and trade policies. There will be an emphasis on developments in the world economy with particular emphasis on the Australian and East Asian region.

### **ECON 7200 Economic Principles (M)**

3 units - summer or winter semester or semester 1 or 2

3 hour lecture per week

Restriction: M.Com. students only

Incompatible: not available to students enrolled in economics PG c/w programs

Assessment: Typically exam, assignments, case study analyses, group or individual projects

The purpose of this module is to introduce students to the basic principles of macroeconomics and microeconomics so that they can understand economic events and the behaviour of the various economic agents involved, analyse their impact on markets and propose appropriate courses of action. To do this, the student should be

able to utilise the tools of economic analysis to perform company and industry competitive analysis and should understand and be conversant with the various economic indicators used.

### **ECON 7200LH Economic Principles (M)**

3 units - semester 1 or 2

The purpose of this module is to introduce students to the basic principles of macroeconomics and microeconomics so that they can understand economic events and the behaviour of the various economic agents involved, analyse their impact on markets and propose appropriate courses of action. To do this, the student should be able to utilise the tools of economic analysis to perform company and industry competitive analysis and should understand and be conversant with the various economic indicators used.

### **ECON 7201 International Finance (M)**

3 units - semester 2

2 hour lecture, 1 hour tutorial

Restriction: M.Com. students who have completed foundation courses

Incompatible: Not available to students who have completed ECON 3021 or ECON 7044

The course has two major elements: the first is the management of exchange rate risk; the second is global financing and investment decisions. The emphasis is on the financial management of an international business. Participants will learn about the mechanisms commonly used to manage the problem of foreign exchange risk; how decisions such as a cross listing on a major stock exchange can lead to an increase in business value; and consider some of the main issues which arise when a company pursues a strategy of global expansion.

International parity relations; international debt and equity markets; foreign exchange spot and derivatives markets; and international financing and capital budgeting decisions are amongst those topics that will be discussed.

### **ECON 7202 Advanced Econometrics**

3 units - semester 2

1 x 2hr lecture

Prerequisite: Credit standard in ECON 3023 or equiv

Assessment: Typically tutorial work, midterm, final exams

In this course we develop the general understanding of the advanced concepts in probability theory and statistics. The requirements for this course are calculus and a familiarity with the elementary concepts in probability and statistics. Probability theory, random variables, distribution, special distributions, expectation, statistical inference, estimation, hypothesis testing, and asymptotic theory are discussed.

### **ECON 7203 Econometrics (H)**

4 units - semester 1

2 hour lecture per week

Prerequisite: Credit standard in ECON 3023 or ECON 7022 or equiv

Assessment: Typically tutorial work, midterm, final exams

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 Econometrics III/IIID or equivalent. Topics include 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.

### **ECON 7204 Econometrics IV**

3 units - semester 1

2 hour Lecture

Prerequisite: Credit standard in ECON 3023 or ECON 7022 or equiv

Assessment: Typically tutorial work, midterm, final exams

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 Econometrics III/IIID or equivalent. Topics include 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.

### **ECON 7205 Public Finance IIID**

3 units - semester 2

2 lectures, 1 tutorial a week

Assumed Knowledge: ECON 7011

Assessment: Typically 2500 word project 45%, final exam 55%

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 7206**  
**Master of Applied Economics Dissertation**

8 units - semester 1 or 2

2-hour workshop

Restriction: M.App.Ec. students only; students are advised to consult the Academic Program Coordinator

Assessment: Dissertation

Each student is to undertake an individual research project that exhibits original investigation, analysis and interpretation. Length of dissertation will be determined in conjunction with the candidate's Supervisor and the Academic Program Coordinator.

**ECON 7207**  
**Master of Applied Economics (International) Dissertation**

8 units - semester 1 or 2

2-hour workshop

Restriction: M.App.Ec. (Int.) students only; students are advised to consult the Academic Program Coordinator

Assessment: Dissertation

Each student is to undertake an individual research project that exhibits original investigation, analysis and interpretation. Length of dissertation will be determined in conjunction with the candidate's Supervisor and the Academic Program Coordinator.

**ECON 7208**  
**Master of Applied Economics (International) Dissertation**

9 units - semester 1 or 2

2-hour workshop

Restriction: M.App.Ec. (Int.) students only; students are advised to consult the Academic Program Coordinator

Assessment: Dissertation

Each student is to undertake an individual research project that exhibits original investigation, analysis and interpretation. Length of dissertation will be determined in conjunction with the candidate's Supervisor and the Academic Program Coordinator.

**ECON 7209**  
**Master of Applied Economics Dissertation**

9 units - semester 1 or 2

2-hour workshop

Restriction: M.App.Ec. students only; students are advised to consult the Academic Program Coordinator

Assessment: Dissertation

Each student is to undertake an individual research project that exhibits original investigation, analysis and

interpretation. Length of dissertation will be determined in conjunction with the candidate's Supervisor and the Academic Program Coordinator.

**ECON 7210**  
**Climate Change: Mitigation and Adaptation**

3 units - semester 1

Restriction: Master of Sustainability & Postgraduate Economics Students

Assessment: Mid year and final essay, weekly assignments

It is widely acknowledged that the planet has become warmer over the past century and that anticipated climate changes over the next few decades will have significant global impacts. The seminar series will address a range of issues relating to mitigation of carbon emissions and adaptive strategies to respond to the anticipated impacts of climate change including: sustainability concepts and frameworks; climate change trends and impacts; population and environment; energy and engineering solutions; the built environment; implications for industry sectors; resource use and waste management; water resources; conservation issues; international policy and law; social sustainability.

**ECON 7211**  
**Fiscal Federalism in Australia**

3 units - Not available in 2009

Assessment: Ongoing assessment & group discussion, mid-year & final essay

This course will introduce students to the details of Australia's intergovernmental financial relations and to economic models that can be used to assess the design of those institutional arrangements. Aspects to be covered include the evolution of Australia's fiscal federal arrangements from constitutional and political perspectives; description of Australia's contemporary institutional arrangements including comparisons with other nations; competing economic paradigms such as "mechanistic" and "organic" views of public finance; efficiency and competition; concepts of equity and distributive justice; voting and public choice; and a synthesis of theoretical perspectives with reference to how Australia's federal fiscal arrangements might evolve in the future. At the end of the course participants should be better able to understand and engage in discussions of policy surrounding fiscal federalism in Australia.

**ECON 7212**  
**Master of Applied Economics Public Policy Dissertation**

12 units - semester 1 or 2

2-hour workshop

Restriction: MAppEco (Public Policy) students only; students are advised to consult the Academic Program Coordinator

Assessment: Dissertation

Each student is to undertake an individual research project that exhibits original investigation, analysis and interpretation. Length of dissertation will be determined in conjunction with the candidate's Supervisor and the Academic Program Coordinator.

### **ECON 7213** **Master of Applied Economics Public Policy** **Dissertation**

8 units - semester 1 or 2

2-hour workshop

Restriction: M.App.Ec. students only; students are advised to consult the Academic Program Coordinator

Assessment: Dissertation

Each student is to undertake an individual research project that exhibits original investigation, analysis and interpretation. Length of dissertation will be determined in conjunction with the candidate's Supervisor and the Academic Program Coordinator.

### **ECON 7214** **Master of Applied Economics Public Policy** **Dissertation**

9 units - semester 1 or 2

2-hour workshop

Restriction: M.App.Ec. students only; students are advised to consult the Academic Program Coordinator

Assessment: Dissertation

Each student is to undertake an individual research project that exhibits original investigation, analysis and interpretation. Length of dissertation will be determined in conjunction with the candidate's Supervisor and the Academic Program Coordinator.

### **ECON 7215** **Time Series Econometrics IIID**

3 units - semester 1

2 lectures, 1 tutorial a week

Prerequisite: ECON 7051 or equiv

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.

### **ECON 7216** **Business & Economic Statistical Theory IID**

3 units - semester 2

2 lectures, 1 tutorial per week

Assumed Knowledge: Intro. Microeconomics, Macroeconomics & Statistics

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 and financial econometrics. Economic and financial data and examples are used throughout this course. 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.

### **ECON 7217** **Topics in Microeconomics IID**

3 units - semester 2

2 lectures, 1 tutorial per week

Prerequisite: ECON 7011 or equiv

Assessment: Typically Mid-semester Exam, Assignments and 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.

## **Education**

### **EDUC 5006** **Education Directed Study**

4 units - semester 2

2 hours per week

Incompatible: with permission of Head of Department

Assessment: Essay/s to a total of 6000 words

This course will allow candidates to pursue an independent project or area of investigation developed in collaboration with a supervisor.

## **EDUC 5013A/B** **Honours Mathematics (Education)**

8 units - full year

Prerequisite: qualification in Mathematics acceptable to Dept of Education & relevant departments in Mathematical Sciences - prospective students should consult with Education Mathematics program coordinator before enrolling

Incompatible: not presented unless EDUC 5017 Mathematics Education is also presented

Assessment: See relevant Mathematics unit

Three courses not already passed, from those offered in Honours in Applied Mathematics, Computer Science, Pure Mathematics, Statistics or Mathematical Physics.

## **EDUC 5401** **University Teaching for Effective Student Learning**

3 units - semester 1 or 2

24 hours contact & estimated 120 hours non-contact

Restriction: Grad. Cert.Higher Educ. students only

Assessment: 2 x 15 minute oral presentations, project report; non-graded pass

Using your current experiences in learning and teaching in higher education, this course will provide you with the opportunity to develop your understanding of student learning and its relationship with good teaching.

The concept of the scholarship of teaching will be explored and practical aspects of such teaching will be presented. The current Teaching at University course is a good indicator of the course outline. Participants will undertake a limited project within their area of interest in teaching. Capabilities in large and small group teaching, and in the use of Information and Communication Technology in teaching will be developed.

## **EDUC 5402** **Curriculum Design, Assessment and Evaluation**

3 units - semester 1

24 hours contact & estimated 120 hours non-contact

Restriction: Grad. Cert.Higher Educ. students only

Prerequisite: Pass in EDUC 4401

Assessment: 1000 word literature-based rationale, one ICT-based 2000+ word report, and one 2000+ word curriculum design assignment. Non-graded pass.

This course will provide opportunities for participants to further develop their skills in curriculum design, including the use of aims and objectives in conjunction with appropriate student learning activities to improve assessment outcomes. The course also assists participants to develop a deeper understanding of the impact assessment has on student learning, how information and communication technologies can be used to improve student learning and how to effectively use peer and student evaluations to analyse the learning and teaching environment. The course will provide opportunities for group interactions that assist participants translate theoretical principles into practical outcomes.

## **EDUC 5403** **Reflective Practice in Learning and Teaching**

3 units - semester 2

24 hours contact & estimated 120 hours non-contact

Restriction: Grad. Cert.Higher Educ. students only

Prerequisite: Pass in EDUC 4401

Assessment: Wiki-based small-group inquiry & 20 minute oral presentation, 2000 word reflective critique including colleague-reviewed teaching sessions - non-graded pass

This course allows participants to develop a deeper insight into their own teaching practice from a student learning perspective. It develops strategies that they may use to initiate quality improvement in their teaching and in student learning. Group based interactions with other participants will be an important component of the course, as will the ability to use peer feedback to initiate change. Participants will develop skills in undertaking peer reviews themselves and providing critical feedback to others on their teaching.

## **EDUC 5404** **Research Based Learning and Teaching**

3 units - semester 1 or 2

12 hours contact & estimated 132 hours non-contact

Restriction: Grad. Cert.Higher Educ. students only

Prerequisite: Pass in EDUC 4401, EDUC 4402 and EDUC 4403

Assessment: Two 20 minute oral presentations, and one 3000+ word project report. Non-graded pass

This unit will develop the concept of learning and teaching in a research-intensive university. The research basis for reflective practice in learning and teaching will be utilised, and the concepts associated with the research basis for the scholarship of teaching will be extended from the earlier courses. An extensive project within the participants' area of interest in teaching will be undertaken, which will demonstrate an impact on colleagues, and more broadly.

## **EDUC 5405** **ICT Literacy in Higher Education**

3 units - semester 1

Estimated 144 hours including scheduled live online classroom sessions

Restriction: Grad. Cert.Online Learning (Higher Ed.) students only

Assessment: Reflective journal, online participation & 2000 word assignment; non-graded pass

This course explores the technological implications of online learning within an educational context. It focuses on learning management systems (lms) and other educational technologies which support both asynchronous and synchronous interactions among teachers, students and content within higher education. The participant will gain an understanding of how various online educational technologies enhance a constructivist and student-centred approach to higher order learning

## **EDUC 5406** **Online Learning Design, Assessment & Evaluation**

3 units - semester 1 or 2

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Estimated 144 hours including scheduled online classroom sessions

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Restriction: Grad.Cert.Online Learning (Higher Ed.) students only

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Corequisite: EDUC 4405

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Assessment: Reflective journal, online participation, and the development of a 2000+ word curriculum evaluation report; non-graded pass

This course incorporates online instructional design considerations which take into account learning styles and a constructivist, student-centred approach to higher order learning, as well as current research and development in scenario-based learning, online roleplay simulations and virtual classrooms. It also includes strategies on making assessment part of the learning process and promotion of learning through effective online assessment including collaboration, groupwork, discussion boards, exemplars and rubrics. Evaluating the impact of the online course design and assessment on student learning is a third and critical component of this course.

## **EDUC 5407** **Online Learning Communities**

3 units - semester 2

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120 hours flexible delivery

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Restriction: Grad.Cert.Online Learning (Higher Ed.) students only

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Assessment: Reflective journal, discussion board participation & 2000 word project report

This course takes the view that whilst the aim is to develop learners to be independent thinkers, at the same time they also need to be interdependent, collaborative learners. A community of learners is a critical component of higher order learning and the technologies of online learning allow for both private reflection as well as public discourse. This course will expand on how online learning communication technologies are changing cognitive and pedagogical approaches to teaching and learning. It also examines a community of inquiry framework which can be considered when planning and delivering online learning. Effective online facilitation techniques will be incorporated. Cultural implications will also be covered.

## **EDUC 5408** **The Changing Nature of Educational Research**

3 units - semester 2

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Estimated 144 hours including scheduled online classroom sessions

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Restriction: Grad.Cert.Online Learning (Higher Ed.) students only

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Prerequisite: Pass in EDUC 4405

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Assessment: Reflective journal, online participation, 750 word short assignment, 1500 word major assignment; non-graded pass

This course overviews various research methodologies used in higher education and explores how online technologies are impacting on these research methods. It also identifies emerging technology-enabled research methods including collaborative, interactive and open access research.

## **EDUC 5500** **Education Minor Project**

4 units - semester 1 or 2

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2 hours per week

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Restriction: with permission of Head of Dept

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Assessment: Eessay/s to a total of 6000 words

This course consists of a survey and review of the literature relating to some aspect of the theory and practice of education arising out of one of the earlier Masters coursework courses completed. Students will present a topic proposal which will be discussed with a supervisor who will recommend appropriate reading. Progress will be monitored through regular discussions between the supervisor and the student.

## **EDUC 5501** **Education Research Project F/T**

8 units - semester 1 or 2

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Assessment: Essay to a total of 12000 words

This may take the form of an essay which provides evidence of the writer's ability to group, synthesise and critically assess the major issues involved in the area treated or of a minor research project which makes an original contribution to knowledge in a particular limited area.

## **EDUC 5502A/B** **Education Research Project P/T**

8 units - full year

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Assessment:Essay to a total of 12000 words

This may take the form of an essay which provides evidence of the writer's ability to group, synthesise and critically assess the major issues involved in the area treated or of a minor research project which makes an original contribution to knowledge in a particular limited area.

## **EDUC 5505** **Education Directed Study (6)**

6 units - semester 1 or 2

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1 hour lecture, 1.5 hour tutorial per week

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Assessment: 1500 word critique of selected curricula/syllabus, 3000 word essay

The topic is concerned with the development of curricula and the design of instruction and the provision of learning experiences, particularly in the fields of science, mathematics and technology. It first examines the historical perspectives and evolution of science, mathematics and technology curricula. Recent development in the fields of cognitive neuroscience, neuropsychology and the specification of learning objectives are examined and their implications for multimedia approaches to learning, teaching and assessment are discussed. Consideration is also given to the teaching of values, as well as the integration of science, mathematics, technology and philosophy in the school curriculum as well as design, development and evaluation of curricula and the implementation of innovative curricula. Curricula innovations are also discussed.

## **EDUC 6201** **Education, Culture and Indigenous Perspectives**

3 units - semester 1

4 hours per week

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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 6202** **Student Learning and Interaction**

3 units - semester 1

2 x 1 hour lectures, 2 x 1 hour tutorials per week

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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 6203** **Curriculum and Assessment of Learning**

3 units - semester 2

3-4 hours per week

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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 6204** **Families, Schools and Special Needs**

3 units - semester 2

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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 6205** **Teaching Practice Part 1**

3 units - semester 1 or 2

Prerequisite: At least one Curriculum and Methodology course

Corequisite: At least one Curriculum and Methodology course

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Students will undertake one block of supervised teaching practice. Students who successfully complete the course are given a non-graded pass.

## **EDUC 6206** **Teaching Practice Part 2**

3 units - semester 1 or 2

Prerequisite: At least one Curriculum and Methodology course

Corequisite: At least one Curriculum and Methodology course

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Students will undertake one block of supervised teaching practice. Students who successfully complete the course are given a non-graded pass.



**EDUC 6308A/B**  
**Accounting Curriculum and Methodology**

2 units - full year

Prerequisite: Pass in six semesters of accounting courses

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 6309A/B**  
**Adult Learner Curriculum and Methodology**

2 units - full year

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 6310A/B**  
**Biology Curriculum and Methodology**

2 units - full year

Prerequisite: Pass in a Level III biological science course

Corequisite: EDUC 6329 Junior Science C & M

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 6311A/B**  
**Business Studies Curriculum & Methodology**

2 units - full year

Prerequisite: Pass in six semesters of a 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 6312A/B**  
**Chemistry Curriculum and Methodology**

2 units - full year

Prerequisite: Pass in a Level III chemistry course

Corequisite: EDUC 6329 Junior Science C & M

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 prepared for the start of their teaching career in middle school science and senior school chemistry.

**EDUC 6313A/B**  
**Chinese Curriculum and Methodology**

2 units - full year

Prerequisite: Pass at Level III Chinese or equivalent

Corequisite: EDUC 6330

Syllabus details to be advised.

**EDUC 6314A/B**  
**Classroom Music Curriculum and Methodology**

3 units - full year

Prerequisite: Degree in Music or pass in Level III music course

Syllabus details to be advised.

**EDUC 6315A/B**  
**Economics Curriculum and Methodology**

2 units - full year

Prerequisite: Pass in six semesters of economics degree

Syllabus details to be advised.

**EDUC 6316A/B**  
**English as a Second Language Curriculum & Methodology**

2 units - full year

Prerequisite: 4 UG linguistics courses or University of Adelaide TESOL Certificate IV

Corequisite: EDUC 6339 Languages Methodology

Assumed Knowledge: High level of English literacy competency

Restriction: Linguistics study must have been in English

Syllabus details to be advised.

**EDUC 6317A/B**  
**Extended Specialist Curriculum & Methodology**

2 units - full year

Restriction: Only with agreement of Head of School

Syllabus details to be advised.

**EDUC 6318A/B**  
**French Curriculum and Methodology**

2 units - full year

Prerequisite: Pass at Level III French or equiv

Corequisite: EDUC 6330

Syllabus details to be advised.

**EDUC 6319A/B**  
**General English Curriculum & Methodology**

2 units - full year

Prerequisite: 4 semesters of English literature

Syllabus details to be advised.

**EDUC 6320A/  
Geography Curriculum and Methodology**

2 units - full year

Prerequisite: Pass in 6 semesters of geography course - in certain circumstances students with 4 semesters of geography courses may be accepted

Corequisite: EDUC 6334

Syllabus details to be advised.

**EDUC 6321A/B  
German Curriculum and Methodology**

2 units - full year

Prerequisite: Pass at Level III German or equivalent

Corequisite: EDUC 6330

Syllabus details to be advised.

**EDUC 6322A/B  
History Curriculum and Methodology**

2 units - full year

Prerequisite: Pass in 6 semesters of history - in certain circumstances students with only 4 semesters may be accepted

Corequisite: EDUC 6334

Syllabus details to be advised.

**EDUC 6323A/B  
Indonesian Curriculum and Methodology**

2 units - full year

Prerequisite: Pass at level III Indonesian or equivalent

Corequisite: EDUC 6330

Syllabus details to be advised.

**EDUC 6324A/B  
Information Technology Curriculum and Methodology**

2 units - full year

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 6325A/B  
Instrumental Music Curriculum & Methodology**

3 units - full year

Prerequisite: Degree in Music, or a pass in Level III music course, plus recognised instrumental qualifications

Corequisite: EDUC 6314

Syllabus details to be advised.

**EDUC 6326A/B  
Italian Curriculum and Methodology**

2 units - full year

Prerequisite: Pass at level III Italian or equivalent

Corequisite: EDUC 6330

Syllabus details to be advised.

**EDUC 6327A/B  
Japanese Curriculum and Methodology**

2 units - full year

Prerequisite: Pass at level III Japanese or Equivalent

Corequisite: EDUC 6330

Syllabus details to be advised.

**EDUC 6328A/B  
Junior Mathematics Curriculum & Methodology**

2 units - full year

Prerequisite: Pass in Mathematics I or equiv

Syllabus details to be advised.

**EDUC 6329A/B  
Junior Science Curriculum and Methodology**

2 units - full year

Prerequisite: Pass in two Level I physical and 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](http://www.sacsa.sa.edu.au/companion)> and is an introduction to the classroom applications and a study of the relationship of teachers and schools to the methods of teaching junior science. The course seeks to develop the knowledge, skills, and professional standards required to effectively instruct science at the junior- and middle-schools. Participants will be provided with insights into selecting and using a variety of instructional methods, resources and assessment strategies for teaching science to all learners. Workshop modules cover hands-on, inquiry, process and project-based approach to the teaching of science with a focus on conceptual teaching and learning. Knowledge of junior science content is emphasised throughout the course. The course content strongly reflects the curricular emphasis of DECS, and the standards articulated by the Australian Science Teachers Association [[www.asta.edu.au/membership/benefits/recognition/profstds](http://www.asta.edu.au/membership/benefits/recognition/profstds)].

**EDUC 6330A/B  
Language Methodology**

2 units - full year

Prerequisite: Pass in a Level III language course other than English

Syllabus details to be advised.

**EDUC 6331A/B**  
**Physics Curriculum and Methodology**

2 units - full year

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Prerequisite: Pass in Level III physics course

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Corequisite: EDUC 6329

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Assessment: Essay, unit of work, online tasks, designing practs & investigations

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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 6332A/B**  
**Senior English Curriculum and Methodology**

2 units - full year

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Prerequisite: Six semesters of English literature

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Corequisite: EDUC 6319

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Syllabus details to be advised.

**EDUC 6333A/B**  
**Senior Mathematics Curriculum & Methodology**

2 units - full year

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Prerequisite: Pass in Level III Mathematics course

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Corequisite: EDUC 6328

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Syllabus details to be advised.

**EDUC 6334A/B**  
**Studies of Society & Environment Curriculum & Methodology**

2 units - full year

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Prerequisite: Pass in six semesters Anthropology, Classical Studies, Economics, Geography, History, Law, Politics or other approved course - in certain circumstances four semesters may be accepted

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Syllabus details to be advised.

**EDUC 6335A/B**  
**Spanish Curriculum & Methodology**

2 units - full year

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Prerequisite: Pass at Level III Spanish or equiv

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Corequisite: EDUC 6330

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Syllabus details to be advised.

**EDUC 6336A/B**  
**Other Language Curriculum and Methodology**

2 units - full year

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Prerequisite: Pass in the appropriate language at Level III or equivalent

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Corequisite: EDUC 6330

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Syllabus details to be advised.

**EDUC 6337A/B**  
**Vietnamese Curriculum and Methodology**

2 units - full year

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Prerequisite: Pass at Level III Vietnamese or equivalent

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Corequisite: EDUC 6330

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Syllabus details to be advised.

**EDUC 6338A/B**  
**Modern Greek Curriculum and Methodology**

2 units - full year

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Prerequisite: Major in Modern Greek or equivalent

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Corequisite: EDUC 6330

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Assessment: Practical assignments, essays

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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 6339A/B**  
**Languages Education for TESOL**

2 units - full year

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Prerequisite: Four undergraduate linguistics courses or University of Adelaide TESOL Certificate IV

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Corequisite: EDUC 6316

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Assumed Knowledge: High level of English literacy competency

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Incompatible: Linguistics study must have been in English

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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 6340A/B**  
**Psychology Curriculum and Methodology**

2 units - full year

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2 hours per week

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Prerequisite: Major in Psychology or equivalent

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Assessment: Practical assignments & essays

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This course will introduce students to the new year 11 and 12 SACE Curriculum in Psychology and discuss appropriate learning methodologies for teaching it.

## **EDUC 6341A/B** **Legal Studies Curriculum and Methodology**

2 units - full year

Prerequisite: Pass in 6 semesters of law or legal studies courses

Corequisite: EDUC 6334

Syllabus details to be advised.

## **EDUC 6342A/B** **Agricultural Science Curriculum & Methodology**

2 units - full year

Prerequisite: Pass in a Level III agricultural science course

Corequisite: EDUC 6329

The course aims to present information on a range of methodologies and discuss a variety of skills that will equip students to be better prepared for the start of their teaching career in middle school science and senior school agricultural science.

## **EDUC 7001** **Educational Inquiry**

3 units - semester 1 or 2

2 hours per week

Restriction: Education Masters coursework only

Assessment: Readings/discussion portfolio, research review presentation, research proposal

This course provides an introduction to educational inquiry and research, and to issues involved in interpreting the findings of inquiry to enable students to become critical consumers of educational research for enhancing professional practice. The role of literature in educational inquiry is examined, and techniques and strategies for critiquing literature are developed. The modules in the course provide a grounding in key concepts, and qualitative and quantitative research designs to develop understanding and skills in particular methods of data collection and analysis. The modules of study include epistemology in the social sciences, the philosophical foundations of modern research strategies, the general classes of research investigations in education, and will help students to develop their skills to better support them in reading and understanding research projects. This course is an initial preparation for writing project work, thesis and dissertation in education.

## **EDUC 7002** **Adult Learning and Program Management**

3 units - semester 1 or 2

Restriction: M.Ed Studies and above at School of Education

This course will develop students' understanding of comparative practice of adult learning, curriculum and methodology issues relating to adult learning and knowledge management, functions of HRM relevant to leadership and innovation in educational contexts, coordination and management of local and transnational adult learning programmes, and creation and management of knowledge to facilitate innovative practice, by educational leaders.

## **EDUC 7003** **Classroom Voices, Contexts and Cultures**

3 units - semester 1 or 2

2 hours of seminars a week

Assessment: 1 x 6000 or 2 x 3000 word essays

Moving away from policy studies and school rhetoric, this research-based course will canvass aspects linked to learners in their learning environment. Initially the history of the classroom will be outlined. Other issues which will be developed are class, gender, race and religion in past and current classrooms. There will be an opportunity to investigate student and teacher voice from classrooms, the community as a classroom, and the influence of architecture on classroom learning and teaching. In addition, classroom cultures and cliques, and their psychological and sociological ramifications will be examined. The course will focus on the emergence of new research methodologies and the possibility of using an interdisciplinary approach in the examination of these issues.

## **EDUC 7004** **Curriculum Design & Evaluation in Science, Mathematics & Technology**

3 units - semester 1 or 2

2.5 hours per week

Assessment: 1500 word critique of selected curricula/syllabus, 3000 word essay

The topic is concerned with the development of curricula and the design of instruction and the provision of learning experiences, particularly in the fields of science, mathematics and technology. It first examines the historical perspectives and evolution of science, mathematics and technology curricula. Recent development in the fields of cognitive neuroscience, neuropsychology and the specification of learning objectives are examined and their implications for multimedia approaches to learning, teaching and assessment are discussed. Consideration is also given to the teaching of values, as well as the integration of science, mathematics, technology and philosophy in the school curriculum as well as design, development and evaluation of curricula and the implementation of innovative curricula. Curricula innovations are also discussed.

## **EDUC 7008** **Indigenous Education**

3 units - semester 1 or 2

2 hours per week

Assessment: 2 x 3000 word essays; seminar paper

The course will examine the historical and cultural contexts of Indigenous Australian education, contrasting Indigenous pedagogies with 'western' practice. It will explore the epistemologies and ontologies of Indigenous Australians, as well as the function of the Dreaming, past and contemporary Indigenous education policies, literacy, restricted knowledges, education as social currency, language rights, Aboriginal English, health and community well-being, and inclusive education. These themes will be

further investigated in relation to classroom practice, the role of teachers and globalisation.

### **EDUC 7009** **Information & Analysis of Frequency & Count Data**

3 units - semester 1 or 2

3 hours per week

Restriction: MEd Studies and above

Assessment: weekly activity/assignment 50%, F&CD project 50%

This course is designed to develop skills in the use of computer-based procedures for the storage and systematic examination of information obtained from published sources, extended interviews on the use of detailed observation schedules, particularly of learning and teaching in classroom situations. In some studies this leads to the discipline interpretation of the information, while in other studies this leads to the development of explanatory models that can be tested with frequency and count data. The first stage of the topic involves an introduction to storage and extraction procedures, and the sorting and shifting of the extracted information, while the second stage involves the analyses of contingency tables, configural frequency analyses, correspondence analyses, log-linear modelling, mobility tables and Markov chains. The emphasis in this course is on the unity of educational research across different disciplines and different methods of inquiry.

### **EDUC 7010** **Innovations in Teaching, Learning and Assessment**

3 units - semester 1

2.5 hours per week

Restriction: MEd students and above only

Assessment: 3000 word electronic portfolio of reading/activities, 2500 word Innovations & implementation for teaching/learning assessment

The aim of the topic is to familiarise students with emerging technologies, and the theoretical, pedagogical and research-based evidence for decision making on optimising learning and enhancing teaching. The topic seeks to highlight the pertinent nexus between teaching, learning, assessment and research. This topic consists of a negotiated, inter-/trans-disciplinary and school-based project that results in creation of a Reflections Portfolio and the design and implementation of a practical (trial and evaluated) unit of work. Interoperability, portability and standards issues will be examined and discussed.

### **EDUC 7011** **Introduction to Statistics in Educational Research**

3 units - semester 1 or 2

2 hours per week

Assessment: Course work, exam - Pass, but no higher grade, may be obtained on coursework assessments only

This course will provide students with an introduction to the use of statistics in educational research. Emphasis will be placed on students achieving an understanding of the statistical procedures considered so that they can think critically about suitable procedures for the collection and

analysis of data, and about the educational usefulness of calculated statistics. Students will gain experience with using the SPSS package on computers.

### **EDUC 7012** **Issues in Science, Maths & Technology Education**

3 units - semester 1 or 2

2 hours per week

Assessment: 2000 word review & synthesis of research literature, 2500 word Innovations and implementation for teaching/learning assessment

The aim of the topic is to familiarise students with the major issues and complementary research in science, mathematics and technology education. This would include reviews and critical examination of research undertaken in science, mathematics and technology education. It introduces to students the application of research for reflection and improvement of practices in science, mathematics and technology education. Students will then translate theory into practice in one or more issues that they can utilise in their own teaching. A number of emerging innovations, namely cognitive neuroscience, reflective practice, inquiry and problem-based learning, will be examined.

### **EDUC 7013** **Educational Leadership Practice in Global Contexts**

3 units - semester 1 or 2

Restriction: M.Ed Studies and above at School of Education

This course will develop students' understanding of contemporary issues in leadership and innovation in global contexts, changing role of leadership in educational contexts, and create innovative educational practice in global contexts. To achieve success in today's competitive environment, it is essential that educational leaders develop the ability to interact positively with others. This course encourages students to explore issues and develop interpersonal skills central to leadership. Topics include: written and oral communication skills, team skills, conflict management, ethical behaviour and stress management. Upon completion students will develop understanding and communication skills to effectively lead and manage adverse workforce, both in local and international contexts.

### **EDUC 7014** **Mathematics Education**

3 units - semester 1 or 2

2 hours per week

Prerequisite: pass in Level III Mathematics course or other qualification accepted by Education Department

Assessment: Essays and assignments

A study of current research and theory in mathematics education.

## **EDUC 7015** **Measurement, Evaluation & Assessment**

3 units - semester 2

3 hours per week

Restriction: MEd students and above only

Assessment: Weekly Activities/Assessment 50%, MEA project 50%

This course assumes a knowledge of introductory statistics and educational measurement and is concerned with the major developments that have occurred during the past 40 years to improve the measurement of human behaviour, learning and development in the fields of education, and the social and behavioural sciences. There are many models that are derived from Item Response Theory and this course focuses on those models developed by Rasch and scholars working within the framework that he proposed for the use of logistic and other functions to transform data so that it would possess sound measurement properties. The principle of measurement seeks to advance both student assessment and use of procedures if multivariate and multilevel analysis, particularly for the investigation of stability and change in human characteristics associated with learning and development.

## **EDUC 7016** **Multicultural Society and Educational Policy**

3 units - semester 2

2 hours per week

Restriction: Master of Educational Studies and above

Assessment: 2 x 3000 word essays, seminar paper

This course explores culturally plural societies, the construction of identities and how these relate to social and educational policies. The key concepts relate to the 'core' values of different cultures and the individual ontologies that people construct from the group values that are determined by social, political and educational systems. These, as well as alternative orientations to cultural pluralism, are examined with reference to epistemologies, curriculum, school organisations and educational policy.

## **EDUC 7017** **Multimedia Literacy and Learning Objects**

3 units - semester 1 or 2

3 hours per week

Restriction: M.Ed Studies and above at the School of Education

This course aims to make use of prevailing technologies of the day and to allow students to achieve those skills, knowledge and attitudes needed to (a) communicate (interpret and produce messages) utilizing different languages and media (text, audio, image, as well as video). It covers three tool literacies and three other literacies of representation. The first three are related to basic knowledge about computer (computer literacy), networks (network literacy) and technology (technology literacy). The remaining three deal more with the analysis of message and how meaning is produced, and focus on information (information literacy), visual images (visual literacy) and the media (media literacy).

## **EDUC 7018** **Neuroscience and Education**

3 units - semester 1 or 2

2 hours per week

Assessment: 6000 word essay

Learning is central to education. Research in neuroscience is having an increasing impact on our understanding of learning. By looking at the brain, scientists are studying the very complex processes that underpin our speech and language, thinking and reasoning, reading and mathematics. This course explores the meaningful links such research offers between the complex brain processes and the actions of our mind. We are particularly concerned with how these links may improve the daily practices of educators.

## **EDUC 7020** **Qualitative Approaches to Educational Research**

3 units - semester 1 or 2

2 hours per week

Assessment: seminar participation, practical data collection, development of research proposal or essay - total 6000 words

This course is designed to provide students with an overview of qualitative research approaches. In addition to considering various theoretical frameworks and methodological approaches, there will be a focus on practical aspects of setting up research projects through the stages of formulating a proposal, preparing a budget, collecting and analysing data, writing up results and formally presenting the thesis.

## **EDUC 7021** **Quantitative Educational Research**

3 units - semester 1 or 2

2 hours of seminars a week

Restriction: Postgraduate Education Only

The course introduces the use, interpretation and application of various types of basic empirical research designs and statistical techniques utilized in education and related policy analysis. It examines the use of quantitative methods in educational research, and seeks to develop an awareness of the assumptions and perspectives that underlie a quantitative approach to research, and in particular the utilization of regression techniques such as multiple regression and path analyses. The course will be taught in the computer laboratory where students will work through a set of exercises using the SPSS and WesVar programs.

## **EDUC 7030** **Education Minor Project (3 Unit)**

3 units - semester 1 or 2

Restriction: Master of Educational Studies and above only

This course consists of a survey and review of the literature relating to some aspect of the theory and practice of education arising out of one of the earlier Masters coursework courses completed. Students will present a topic proposal which will be discussed with

a supervisor who will recommend appropriate reading. Progress will be monitored through regular discussions between the supervisor and the student.

### **EDUC 7034**

#### **Assessment & Evaluation: Principles and Processes**

3 units - semester 2

Restriction: M.Ed Studies students and above in the School of Education

Syllabus details to be advised.

### **EDUC 7035**

#### **Tests and Questionnaire Designs**

3 units - semester 1

Restriction: M.Ed Studies students and above in the School of Education

Syllabus details to be advised.

### **EDUC 7036**

#### **ICT Literacy**

3 units - semester 1

Syllabus details to be advised.

### **EDUC 7039NA**

#### **Program Design and Learning**

6 units - quadmester 1 or quadmester 2 or quadmester 3 or quadmester 4

Restriction: Master of Training & Development - Singapore only

Syllabus details to be advised

### **EDUC 7040NA**

#### **Innovations in Teaching, Learning and Assessment**

6 units - quadmester 1 or quadmester 2 or quadmester 3 or quadmester 4

Restriction: Master of Training & Development - Singapore only

The aim of the topic is to familiarise students with emerging technologies, and the theoretical, pedagogical and research-based evidence for decision making on optimising learning and enhancing teaching. The topic seeks to highlight the pertinent nexus between teaching, learning, assessment and research. This topic consists of a negotiated, inter-/trans-disciplinary and school-based project that results in creation of a Reflections Portfolio and the design and implementation of a practical (trial and evaluated) unit of work. Interoperability, portability and standards issues will be examined and discussed.

### **EDUC 7042NA**

#### **Curriculum Design & Evaluation in Science, Mathematics & Technology**

6 units - quadmester 1 or quadmester 2 or quadmester 3 or quadmester 4

Restriction: Master of Training & Development - Singapore only

The topic is concerned with the development of curricula and the design of instruction and the provision of learning experiences, particularly in the fields of science, mathematics and technology. It first

examines the historical perspectives and evolution of science, mathematics and technology curricula. Recent development in the fields of cognitive neuroscience, neuropsychology and the specification of learning objectives are examined and their implications for multimedia approaches to learning, teaching and assessment are discussed. Consideration is also given to the teaching of values, as well as the integration of science, mathematics, technology and philosophy in the school curriculum as well as design, development and evaluation of curricula and the implementation of innovative curricula. Curricula innovations are also discussed.

### **EDUC 7043NA**

#### **Education Minor Project (6 Unit)**

6 units - quadmester 1 or quadmester 2 or quadmester 3 or quadmester 4

Restriction: Master of Training & Development - Singapore only

Syllabus details to be advised.

## **Engineering**

### **Chemical Engineering**

#### **CHEM ENG 7004**

##### **Biochemical Engineering**

3 units - Not offered in 2009

Available for Non-Award Study

Assessment: Assignments, exam, project

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 7008**

##### **Combustion Processes**

3 units - Not offered in 2009

Available for Non-Award Study

Assessment: Assignments, exam, project

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 7009**

##### **Plant and Safety Engineering**

3 units - Not offered in 2009

Available for Non-Award Study

Assessment: Assignments, exam, project

The course covers the management of safe operation and the care and maintenance of process-plant equipment in an integrated operational context. The studies will

include the interpretation of industrial standards and legal requirements, in occupational health and safety, in environmental matters and in hazard and operability studies. Also covered are the techniques and methods for the quantitative assessment of plant reliability and availability and their effects on plant throughput.

### **CHEM ENG 7010WT Winery Engineering III**

3 units - Not offered in 2009

2 lectures, 1 tutorial, 3 hours practical/project exercises per week

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: AGRONOMY 2012RW Engineering Science or CHEM ENG 1001 Engineering Physics, or equiv.

Assessment: Final exam, tutorials, project work

Application of engineering principles and practices to winemaking. Process calculations (mass and energy balances), process utilities (refrigeration, process heating and cooling), steam systems, electrical power systems, heat transfer and heat exchangers, must, juice and wine transfer methods, centrifugation and filtration, process control and instrumentation.

### **CHEM ENG 7012 Environmental Engineering**

3 units - Not offered in 2009

Available for Non-Award Study

Assessment: Assignments, exam, project

The study of air and water pollution; pollutant dispersion; control equipment; primary, secondary and tertiary waste water treatment; landfill and hazardous wastes.

### **CHEM ENG 7021 Special Studies in Chemical Engineering**

3 units - semester 1 or 2

Restriction: approval by Head of School - students are advised to contact the PG Coursework Coordinator before enrolling

Assessment: Assignments, exam, project

Courses and/or a scholarly, research or industrial project work.

### **CHEM ENG 7022 Chemical Engineering Management and Optimisation**

3 units - Not offered in 2009

Available for Non-Award Study

Assessment: Assignments, exam, project

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 7023 Chemical Process Simulation**

3 units - Not offered in 2009

Available for Non-Award Study

Assessment: assignments, exam, project

Principles of computer-aided design and simulation of processes. A design problem is solved using industrial process computer simulation software.

### **CHEM ENG 7024 Process Synthesis and Integration**

3 units - semester 1 or 2

Available for Non-Award Study

Assessment: Assignments, project

Design and synthesis of HEN (heat exchanger networks) including evolutionary and algorithmic methods. Integration of power, work, separation waste and/or energy systems. Application to an industrial process: Flexibility and operability studies; retrofit situations.

### **CHEM ENG 7027 Transport Processes in the Environment**

3 units - Not offered in 2009

Available for Non-Award Study

Assessment: Exam 80%, assignments, project

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 7030 Process Modelling & Control**

3 units - Not offered in 2009

Available for Non-Award Study

Assumed Knowledge: process control at UG level

Assessment: Exam, project

The principles of process modelling particularly dynamic modelling; stability analysis and the design of control loops; state variable models and their use; typical control structures for a variety of commonly encountered processes specification of advanced controllers (e.g. dead time compensation, feed-forward, IMC, model-based control, model-based controllers); discrete-system models; specification of multi-variable control structures and de-couplers.

### **CHEM ENG 7032 Principles of Sustainability and Decision Making**

3 units - Not offered in 2009

45 hours directed study, tutorials, project

Available for Non-Award Study

Assessment: Exams, tutorials, project

Engineering for sustainable development provides for human needs without compromising future generation's



ability to meet their needs. Industry's impact on sustainability can be summarised in the "triple bottom line", covering the three components - environmental responsibility, economic return (wealth creation), and social development. For industry to guide its activities towards greater sustainability, engineers need to have the tools to assess the operations with which they are concerned. This course introduces a set of indicators that can be used to measure the sustainability of an operating unit. These metrics will address the issue of sustainable development and enable companies to set targets and develop standards for internal benchmarking, and to monitor annual progress.

### **CHEM ENG 7033 Chemometrics**

3 units - Not offered in 2009

45 hours directed study, tutorials, project

Available for Non-Award Study

Assessment: Exams, tutorials, project

Mathematical, statistical, graphical or symbolic methods to improve the understanding of chemical information. Methods will consider multiple variables simultaneously - projections and mapping, experimental design, optimization of experimental parameters, techniques of collecting good data and information extraction - principal component analysis, singular value decomposition, linear discriminant analysis, resolution and signal processing.

### **CHEM ENG 7034 Environmental Modelling**

3 units - semester 1

45 hours directed study, tutorials, project

Available for Non-Award Study

Assessment: Exams, tutorials, project

Introduction to a variety of models to determine the fate of organic contaminants released into the natural environment. The course focus will be on organic contaminants in a multi-media world. The models represent the real world processes by using a series of compartments which allow for the movement of chemicals between them. Models include wind and currents and allow for advection, differences in concentration, sedimentation and scavenging processes, etc.

### **CHEM ENG 7035 Waste Water Treatment**

3 units - semester 2

45 hours directed study, tutorials, project

Available for Non-Award Study

Assessment: Exams, tutorials, project

Techniques for the characterization of wastewaters; fundamental understanding of many of the existing unit operations and processes used for wastewater treatment, especially those processes used for the biological removal of nutrients; implementation of several newer technologies (e.g. UV disinfection, membrane filtration, and heat drying); concern for the long term health and

environmental impacts of wastewater constituents; advanced wastewater treatment and risk assessment for water reuse applications; introduction to water waste minimization and associated methods.

### **CHEM ENG 7036 Air Pollution**

3 units - semester 2

45 hours directed study, tutorials, project

Available for Non-Award Study

Assessment: Exams, tutorials, project

Effects and sources of air pollutants; meteorological effects on air pollution; dispersion of pollutants in the atmosphere; particulate emission control; control of gases and vapours; adsorption; adsorption principles; atmospheric photochemical reactions.

### **CHEM ENG 7037 Combustion and Energy Engineering**

3 units - semester 2

45 hours directed study, tutorials, project

Available for Non-Award Study

Assessment: Exams, tutorials, project

Chemistry and physics of combustion: kinetically controlled combustion of solid fuels: flames in premixed gases: heat transfer in furnaces.

### **CHEM ENG 7038 Process Plant Safety and Risk Assessment**

3 units - semester 2

45 hours directed study, tutorials, project

Available for Non-Award Study

Assessment: Exams, tutorials, project

This course fully examines the diverse regulatory, design and operational issues related to process plant safety and will develop the arsenal of proven tools and techniques for implementing safety and risk management in various segments of the CPI.

'Risk' means different things to different people although there is common ground based on the notion of uncertainty. If we knew what would happen next then there would be no 'risk'. Demonstrating that risk has been properly managed has given rise to a number of risk management paradigms. These will be considered in a process engineering context.

### **CHEM ENG 7039 Pinch Analysis**

3 units - semester 2

45 hours directed study, tutorials, project

Available for Non-Award Study

Assessment: Exams, tutorials, project

Heat exchanger network synthesis (HENS) is one of the most extensively studied problems in chemical process synthesis. Its significance can be attributed to its role in controlling the costs of energy for a process. The two primary methods for HENS are sequential and

simultaneous synthesis methods. Water pinch analysis can be used to guide water and effluent management decisions while at the same time improving the efficiency of chemical processes. It can be used for the initial design of the process or as a tool to guide process modifications due to changing circumstances (financial, process or environmental). The procedure enables the minimum amount of water to be determined by considering the introduction of recycle loops and reuse cascades. The analysis highlights operations that should be investigated to improve the efficiency of water management.

### **CHEM ENG 7040** **Thermal and Separation Processes**

3 units - semester 2

45 hours directed study, tutorials, project

Available for Non-Award Study

Assessment: Exams, tutorials, project

Separation technology and processes are studied with application to current industrial design problems. Topics and design case studies may include: absorption, adsorption, biological separations, crystallization, distillation, environmental separations, ion exchange, membrane separations, molecular distillation, pervaporation, solid separations, supercritical extraction, thermal stripping, and others. Thermal design of heat exchangers, condensers, furnace, etc will also be considered.

### **CHEM ENG 7041** **Advanced Rheology and Polymer Processing**

3 units - semester 1

45 hours directed study, tutorials, project

Available for Non-Award Study

Assessment: Exams, tutorials, project

Applications and properties of polymers and complex fluids; measurement, analysis and prediction of flow behaviour and rheological properties of complex fluids; analysis and modelling of polymer and polymer processing operations.

### **CHEM ENG 7042** **Advanced Chemical Engineering Thermodynamics**

3 units - semester 2

45 hours directed study, tutorials, project

Available for Non-Award Study

Assessment: exams, tutorials, project

Laws of thermodynamics from phenomenological and statistical point of view; reactions and phase equilibria; properties of solutions; analysis of chemical engineering processes from the standpoint of thermodynamics; introduction to statistical and irreversible thermodynamics.

### **CHEM ENG 7043** **Bioreaction and Bioseparation Engineering**

3 units - semester 2

45 hours directed study, tutorials, project

Available for Non-Award Study

Assessment: Exams, tutorials, project

Applications of chemical kinetics and reaction engineering principles to bioreactors; biological reactors and fermentor design and scale-up; kinetics of microbial growth, product formation, enzyme catalysed reactions; separation processes in biological systems; enzyme/cell isolation, product enrichment by methods of ion-exchange, filtration, centrifugation, chromatography, reverse-osmosis, precipitation, salting-out, electrophoresis, membrane separations.

### **CHEM ENG 7044** **Food Engineering**

3 units - semester 2

45 hours directed study, tutorials, project

Available for Non-Award Study

Assessment: Exams, tutorials, project

The principal foci of this course are determination of the thermophysical and rheological properties of a range of food systems and food ingredients; examination of the fundamental and applied aspects of grain, vegetable and crop storage and drying; process control of food processing operations; and development of computer models of food processing unit operations and of quality changes during processing.

### **CHEM ENG 7045** **Advanced Fluid Mechanics**

3 units - semester 1

45 hours of directed study, tutorials and project

Available for Non-Award Study

Assessment: Exams, tutorials, project

This course is intended to give students a state-of-the-art understanding about single and multicomponent boiling and condensation heat transfer phenomena.

Applications include the analysis of nuclear reactors, oil wells, and chemical process equipment. As well, the course will develop state-of-the-art understanding in multicomponent flow phenomena. Applications in the chemical process, petroleum recovery, and fossil/nuclear power industries will be given. Specific areas of coverage include two-phase; fluid mechanics, pressure drop, modelling and analysis, stability analysis, critical flow and dynamic waves, flow regime analysis, and phase separation and distribution phenomena. The application of computational fluid dynamics will also be considered.

## **CHEM ENG 7046A/B Masters Project**

12 units - full year

240 hours per semester

Assessment: Performance during the project work, assessment of written reports, seminar presentations

Industrial project topic as agreed by the Head of School.

## **CHEM ENG 7047 Composite and Multiphase Polymers**

3 units - semester 2

36 hours lectures and tutorials

Available for Non-Award Study

Assessment: Exam 60%, case study, report, assignments 40%

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 foamed polymer; production and properties of structural foams; and orientated polymers.

## **Civil & Environmental Engineering**

### **C&ENVENG 7027 Wastewater Engineering and Design**

3 units - semester 1

36 hours lectures, tutorials, project work

Available for Non-Award Study

Assessment: Projects & exam

Characteristics of wastewater; primary, secondary and tertiary treatment methods; sludge disposal; project: design of wastewater treatment plant; includes Masters level project.

### **C&ENVENG 7028 Waste Management Analysis and Design**

3 units - semester 2

36 hours lectures, tutorials, design, and directed study

Available for Non-Award Study

Assessment: Projects & exam

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; includes Masters level project.

### **C&ENVENG 7029 Environmental Modelling, Management and Design**

3 units - Not offered in 2009

36 hours lectures, project work; directed study

Available for Non-Award Study

Assessment: To be advised

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. Includes Masters level project.

### **C&ENVENG 7033 Structural Dynamics due to Wind and Earthquakes**

3 units - Not offered in 2009

36 hours lectures, tutorials, directed study

Available for Non-Award Study

Assessment: Projects & exam

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. Application of the principles will be reinforced through a small design project

### **C&ENVENG 7034 Deep Foundation Engineering and Design**

3 units - semester 1

36 hours lectures, tutorials, project work

Available for Non-Award Study

Assessment: Projects and exam

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; includes Masters level project.

### **C&ENVENG 7035 Expansive Soils and Footing Design**

3 units - Not offered in 2009

36 hours lectures, tutorials, project work

Available for Non-Award Study

Assessment: Coursework and examination

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. Includes a Masters level project.

**C&ENVENG 7036**  
**Water Resources Optimisation and Modelling**

3 units - semester 2  
 36 hours lectures, tutorials, directed study  
 Available for Non-Award Study  
 Assessment: Projects, assignments & exam

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. Includes Masters project.

**C&ENVENG 7037**  
**Water Distribution Systems and Design**

3 units - semester 2  
 36 hours lectures, tutorials, directed study  
 Available for Non-Award Study  
 Assessment: Projects & exam

Water distribution systems analysis. Steady state analysis of pipe networks. EPANET. Alternative formulations of equations for pipe networks. Computer solution techniques. Optimisation of pipe networks using genetic algorithms. Water hammer analysis. Pump transients. Water hammer in hydro-electric plants. Water hammer control methods. Includes Masters project.

**C&ENVENG 7038**  
**Coastal Engineering & Design**

3 units - Not offered in 2009  
 36 hours lectures, tutorials, project work  
 Available for Non-Award Study  
 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; includes Masters level project.

**C&ENVENG 7039**  
**Special Studies in Civil and Struct Engineering**

3 units - semester 1 or 2  
 Available for Non-Award Study

Advanced topics as approved by the Head of School.

**C&ENVENG 7040**  
**Special Studies in Civil and Environ Engineering**

3 units - semester 1 or 2  
 Available for Non-Award Study

Advanced topics as approved by the Head of School

**C&ENVENG 7042**  
**Advanced Reinforced Concrete**

3 units - semester 2  
 36 hours lectures, tutorials; directed study  
 Available for Non-Award Study  
 Assessment: Design, tutorials and 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 7043**  
**Introduction to Geostatistics**

3 units - summer semester  
 Available for Non-Award Study  
 Assumed Knowledge: Basic geology; elementary statistics (mean, variance, histogram)  
 Assessment: Coursework 50%, exam 50%

Basic introduction to geostatistics with the emphasis on concepts rather than mathematics. Regionalised (or spatial) variables. Quantifying the criteria for estimation sources of errors in estimation, fundamental basis of the geostatistical approach, mean and variance of the estimation error. The variogram calculation, interpretation, linking variogram behaviour with physical causes (geology, sampling). Variances, covariances, Krige's volume-variance relationship. Extension variances and estimation variances simple calculations in one and two dimensions. Global reserve/resource estimation. Optimal estimation introduction to kriging. Estimated values and true values reasons for differences and simple ways of accounting for them.

**C&ENVENG 7044**  
**Introduction to Environmental Law**

3 units - semester 2  
 24 hours lectures, tutorials  
 Restriction: students in specified programs only, please check relevant Academic Rules  
 Assessment: May include assignments and/or exam - details 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 7045** **Special Studies in Water Engineering**

3 units - semester 1 or 2

Available for Non-Award Study

Advanced Topics as approved by the Head of School.

## **C&ENVENG 7046** **FRP Retrofitting of Concrete Structures**

3 units - Not offered in 2009

36 hours lectures, tutorials, directed study

Available for Non-Award Study

Assessment: 2 design reports and/or quizzes - details at start 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 7047** **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 20352, 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 7048** **Water Resources Sustainability and Design**

3 units - semester 1

36 hours lectures, tutorials

Available for Non-Award Study

Assumed Knowledge: some Hydrology, Water Engineering

Assessment: Essay, short talk, Masters level 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 7049A** **Masters Civil & Structural Eng Project Part 1**

6 units - semester 1 or 2

480 hours

Available for Non-Award Study

Assessment: Evaluation of performance including research thesis, conference paper preparation, literature review & oral presentations

Students usually work in groups on a research thesis under the supervision of an academic staff member.

## **C&ENVENG 7049B** **Masters Civil & Structural Eng Project Part 2**

12 units - full year

480 hours

Available for Non-Award Study

Assessment: evaluation of performance including research thesis, conference paper preparation, literature review & oral presentations

Students usually work in groups on a research thesis under the supervision of an academic staff member.

## **C&ENVENG 7050A/B** **Masters Civil & Environmental Engineering Project**

12 units - full year

480 hours

Available for Non-Award Study

Assessment: Evaluation of performance including research thesis, conference paper preparation, literature review & oral presentations

Students usually work in groups on a research thesis under the supervision of an academic staff member.

## **C&ENVENG 7051** **Geostatistics-Project and Thesis**

12 units - summer semester or semester 1 or 2

regular supervisory meetings with Project Supervisor

Prerequisite: Completion of all taught M.Geostatistics courses

Assessment: examination of thesis

Students are required to undertake a major project and submit a dissertation/thesis describing their work. The project is based on a realistic, industrial data set and must involve: a rigorous statistical and geostatistical analysis of the data yielding variograms and, where appropriate, cross-variograms; fitting acceptable models to variograms and cross-variograms and making credible interpretations of the models, an innovative application of at least one advanced geostatistical technique, selected from those

covered in the taught programme, to solve a clearly defined problem based on the data set, and an analytical description of the work presented as a thesis/dissertation

### **C&ENVENG 7052** **Geostatistical Simulation**

3 units - semester 2

22 lectures, 5 tutorials, 5 practicals

Available for Non-Award Study

Prerequisite: C&ENVENG 7056, STATS 7061 C&ENVENG 7053, C&ENVENG 7057

Corequisite: STATS 7062

Assessment: Coursework 50%, formal written exam 50%

Concepts - differences between estimation and simulation. Monte Carlo simulation. Extension MC to spatially correlated simulation. Conditional and non-conditional simulation. The turning bands method of simulation. Simulating coregonalisations (multivariate spatial correlations)- extensive case study of multivariate simulation using turning bands method. The LU decomposition method of simulation. Sequential methods - sequential Gaussian, sequential indicator simulation. Simulating geological structures - indicator simulation, truncated Gaussian simulation, plurigaussian simulation.

### **C&ENVENG 7053** **Non-Linear Geostatistics**

3 units - semester 2

22 lectures, 5 tutorials, 5 practicals

Available for Non-Award Study

Prerequisite: C&ENVENG 7056, STATS 7061

Assessment: Coursework 50%, formal written exam 50%

Reasons for using non-linear methods of estimation - outliers, skewed distributions, "best" estimates. Simple ways of dealing with non-linearity: proportional effects, lognormality. Estimation by direct transformation to a Gaussian (normal) distribution - lognormal kriging; multigaussian kriging. Indirect methods - illustrated by heuristic methods in case studies. Hermite polynomial transforms. Disjunctive kriging. Non-parametric estimation - indicator kriging, multiple indicator co-kriging

### **C&ENVENG 7054** **Computing for Geostatistics**

2 units - semester 1 or winter semester

10 lectures, 10 practicals

Available for Non-Award Study

Assumed Knowledge: basic computer skills

Assessment: Coursework

The purposes of this course are: (i) to teach the rudiments of a programming language so that students can implement their own simple programmed versions of geostatistical techniques. They may also require these skills for manipulating data in their project and coursework. Any simple language could be used, eg; Fortran 90. (ii) to train students in the use of the GeostatWin computer package. For students who are already proficient in a programming language the

emphasis is on applications using the GeostatWin package.

### **C&ENVENG 7055** **Selection & Recoverability**

2 units - semester 1 or winter semester

10 lectures, 5 tutorials, 5 practicals

Available for Non-Award Study

Prerequisite: C&ENVENG 7043

Corequisite: STATS 7061

Assessment: Coursework 25%, formal written exam 75%

This course is essentially a study of scale effects. The applications are to mineral resources and environmental contamination (ground) but, depending on the chosen specialisations, can be expanded to all other applications. The emphasis is on conceptual approaches to simple applications leading to simple spatial statistical methods to predict the effects of changing scale - e.g. predicting the distributions of grade values of large blocks from the grade values of sample volumes. The information effect and the support effect - concepts, quantification and practical consequences. Parametric formulation of the change of scale. The affine correction. Local and global corrections for scale effects. Simple examples.

### **C&ENVENG 7056** **Linear Geostatistics**

3 units - semester 1

22 lectures, 5 tutorials, 5 practicals

Available for Non-Award Study

Prerequisite: C&ENVENG 7043 Introduction to Geostatistics

Corequisite: STATS 7061 Statistical Analysis

Assessment: Coursework 50%, formal written exam 50%

This course provides a more rigorous and in-depth treatment of the subjects covered in Introduction to Geostatistics. Variograms - calculation, interpretation and modelling. Averaging effects - regularisation and its effects. Using the variogram to predict statistical characteristics of variables measured on different scales. The stationarity assumptions - strict stationarity, second-order stationarity and intrinsic stationarity. Kriging and kriging variances - the effects of changes in parameter values, screen effects, simple kriging, ordinary kriging. Applications of kriging to case studies and demonstration examples.

### **C&ENVENG 7057** **Non-Stationarity**

2 units - semester 2

15 lectures, 3 tutorials, 2 practicals

Available for Non-Award Study

Prerequisite: C&ENVENG 7056, STATS 7061

Assumed Knowledge: Geostatistics concepts & ability to apply them

Assessment: Coursework 50%, formal written exam 50%

Introduction to the concept of drift (trend) by way of geological examples. Definitions of the various forms of stationarity (in a statistical sense). Simple ways of dealing with non-stationary variables. Detailed case

study to illustrate the assessment and quantification of non-stationarity. Universal kriging and universal kriging variances. Intrinsic Random Functions and generalised covariances. Statistical tests for constant mean of a spatial variable - the D-statistic and the global D-statistic

### **C&ENVENG 7058 Structural Mechanics IIIA**

3 units - semester 1

48 hours lectures, tutorials

Restriction: students in specified programs only, please check relevant Academic Rules

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 7059 Structural Response to Blast Loading**

3 units - semester 1

24 hr lectures

Available for Non-Award Study

Assessment: Project reports 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 7060A/B Geostatistics-Project & Thesis**

12 units - full year

Regular supervisory meetings with Project Supervisor

Restriction: Students must have completed C&ENVENG 7060A

Prerequisite: completion of all M.Geostatistics courses

Incompatible: Not to be taken with C&ENVENG 7051

Assessment: Examination of thesis

Students are required to undertake a major project and submit a dissertation/thesis describing their work. The project is based on a realistic, industrial data set and must involve: a rigorous statistical and geostatistical analysis of the data yielding variograms and, where appropriate, cross-variograms; fitting acceptable models to variograms and cross-variograms and making credible interpretations of the models, an innovative application of at least one advanced geostatistical technique, selected from those covered in the taught programme, to solve a clearly defined problem based on the data set, and an analytical description of the work presented as a thesis/dissertation.

### **C&ENVENG 7061 Computer Methods of Structural Analysis and Design**

3 units - semester 2

24 total contact hours lectures, tutorials, practicals; directed study

Restriction: students in specified programs only, please check academic rules of program

Available for Non-Award Study

Assessment: May include assignments or exams

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 7062A Geostatistics - Project & Thesis**

3 units - semester 1 or 2

Regular meetings with Project Supervisor

Restriction: students must complete parts 2, 3 & 4

Assumed Knowledge: Intro to Geostats

Incompatible: may not enrol into C&ENVENG 7060 or 7051

Assessment: Examination of thesis

Students are required to undertake a major project and submit a dissertation/thesis describing their work. The project is based on a realistic, industrial data set and must involve: a rigorous statistical and geostatistical analysis of the data yielding variograms and, where appropriate, cross-variograms; fitting acceptable models to variograms and cross-variograms and making credible interpretations of the models, an innovative application of at least one

advanced geostatistical technique, selected from those covered in the taught programme, to solve a clearly defined problem based on the data set, and an analytical description of the work presented as a thesis/dissertation.

### **C&ENVENG 7062B**

#### **Geostatistics - Project & Thesis**

3 units - semester 1 or 2

Regular meetings with Project Supervisor

Restriction: students must complete parts 1, 3 & 4

Assumed Knowledge: Intro to Geostats

Incompatible: May not enrol into C&ENVENG 7060 or 7051

Assessment: Examination of thesis

Students are required to undertake a major project and submit a dissertation/thesis describing their work. The project is based on a realistic, industrial data set and must involve: a rigorous statistical and geostatistical analysis of the data yielding variograms and, where appropriate, cross-variograms; fitting acceptable models to variograms and cross-variograms and making credible interpretations of the models, an innovative application of at least one advanced geostatistical technique, selected from those covered in the taught programme, to solve a clearly defined problem based on the data set, and an analytical description of the work presented as a thesis/dissertation.

### **C&ENVENG 7062C**

#### **Geostatistics - Project & Thesis**

3 units - semester 1 or 2

Regular meetings with Project Supervisor

Restriction: students must complete parts 1, 2 & 4

Assumed Knowledge: Intro to Geostats

Incompatible: May not enrol into C&ENVENG 7060 or 7051

Assessment: Examination of thesis

Students are required to undertake a major project and submit a dissertation/thesis describing their work. The project is based on a realistic, industrial data set and must involve: a rigorous statistical and geostatistical analysis of the data yielding variograms and, where appropriate, cross-variograms; fitting acceptable models to variograms and cross-variograms and making credible interpretations of the models, an innovative application of at least one advanced geostatistical technique, selected from those covered in the taught programme, to solve a clearly defined problem based on the data set, and an analytical description of the work presented as a thesis/dissertation.

### **C&ENVENG 7062D**

#### **Geostatistics - Project & Thesis**

12 units - full year

Regular meetings with Project Supervisor

Restriction: students must complete parts 1, 2 & 3

Prerequisite: must have completed or be enrolled in 7062A, 7062B and 7062C

Assumed Knowledge: Intro to Geostats

Incompatible: May not enrol into C&ENVENG 7060 or 7051

Assessment: Examination of thesis

Students are required to undertake a major project and submit a dissertation/thesis describing their work. The project is based on a realistic, industrial data set and must involve: a rigorous statistical and geostatistical analysis of the data yielding variograms and, where appropriate, cross-variograms; fitting acceptable models to variograms and cross-variograms and making credible interpretations of the models, an innovative application of at least one advanced geostatistical technique, selected from those covered in the taught programme, to solve a clearly defined problem based on the data set, and an analytical description of the work presented as a thesis/dissertation.

## **Electrical & Electronic Engineering**

### **ELEC ENG 7001**

#### **Introduction to Electronic Defence Systems**

3 units - semester 2

24 hours lectures, 6 hours tutorials

Available for Non-Award Study

Assumed Knowledge: ELEC ENG 3018, ELEC ENG 2007, ELEC ENG 2009

Assessment: Quizzes 10%, Computer Simulation 20%, project report 70%

This course aims to introduce students to the basic operating principles of electronic defence systems such as radar, electronic warfare and satellite navigation systems. The course assumes some familiarity with fundamental principles of RF circuit analysis, antennas and electromagnetic theory and signal processing and this knowledge will be applied to the study of typical defence systems. A report on a representative defence system together with a computer simulation of some aspect of the system will form the major component of the assessment.

### **ELEC ENG 7015**

#### **Adaptive Signal Processing**

3 units - Not available 2009

30 hours lectures, tutorials

Available for Non-Award Study

Assumed Knowledge: linear systems (discrete & continuous), linear algebra (matrices), probability theory, Fourier & Z transforms & MATLAB

Assessment: exam 50%, assignment 50%

Introductory and Preliminary material - Introduction to the concepts, key issues and motivating examples for adaptive filters; Discrete time linear systems and filters; Random variables and random processes, covariance matrices; Z transforms of stationary random processes. Optimum Linear Systems - Error surfaces and minimum mean square error; Optimum discrete time Wiener filter; Principle of orthogonality and canonical forms; Constrained optimisation; Method of steepest descent - convergence issues; Stochastic gradient descent LMS - convergence in the mean and misadjustment Case study. Least squares and recursive least squares. Linear Prediction - Forward and backward linear prediction; Levinson Durbin; Lattice filters.



## **ELEC ENG 7017** **Beamforming and Array Processing**

3 units - semester 2

30 hours lectures, tutorials

Available for Non-Award Study

Assumed Knowledge: linear systems (discrete & continuous), linear algebra (matrices), probability theory, Fourier & Z transforms & MATLAB

Assessment: exam 50%, assignment 50%

Introductory material - Concepts, key issues and motivating array examples; Simple propagating field models. Deterministic Signals - Conventional beamforming concepts: narrowband beamforming; Beam patterns: beamwidth, sidelobes and grating lobes, Array shading real weights, Array factor theorems; Multiple simultaneous beams; Time delay and sum beamforming. Random Signals - Probability and random processes for arrays; Cross-spectral matrices. Frequency Domain Beamforming - Frequency domain Approach single and multiple beams; Array Gain; Frequency wavenumber; Array shading and null steering. Optimum Beamforming in Frequency Domain - Optimisation criteria constrained minimum mean square and Conventional and Optimum Comparisons; Constraints: mainbeam and nulls; Sample Matrix Inverse and statistical considerations. Adaptive Beamforming in Frequency Domain - Sample Matrix Inverse update; Gradient descent and optimisation surfaces with constraints; Convergence requirements; Stochastic Descent Methods: Least Mean Square; Convergence in the mean and mean square convergence. Optimum and Adaptive Beamforming in Time Domain - Multichannel tapped delay line approach; Optimum solution; Adaptive solution with passband constraints. Subspace Methods - Beam space approaches; MUSIC and other eigen space approaches.

## **ELEC ENG 7033** **Principles of RF Engineering**

3 units - semester 1

Available for Non-Award Study

Assumed Knowledge: foundation course in electronics & some familiarity with electromagnetic ideas

Assessment: hardware design assignment, tests

RF System Basics: Radio waves, antennas, analogue modulation, noise, sensitivity, selectivity, non-linearity, digital modulation, spread spectrum and radar. Tuned Circuits: Resonance, Q, bandwidth, transformers and matching networks. Amplifiers: BJT amplifiers, Miller effect, differential amplifiers, feedback, FET amplifiers, amplifier noise. Scattering Parameters: Transmission lines, impedance transformation, Smith charts, S parameters and S parameter amplifier design. Multi-port networks. Power Amplifiers: Class A, B, C and E amplification. Broadband matching. Filters: Basic lumped component designs. Filter realisation in microstrip form. Oscillators: Basic oscillator design and negative resistance approach. Phase noise and stability issues. Mixers, Modulation and Demodulation: Diode, BJT and FET mixers. The generation and demodulation of AM, SSB, FM and PM signals. Introduction to Phase Locked Loops: Basic principles and some applications. Frequency synthesisers.

## **ELEC ENG 7044** **Multimedia Communications**

3 units - semester 2

30 hours lectures, tutorials

Available for Non-Award Study

Assumed Knowledge: ELEC ENG 4046 or equiv

Assessment: 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. Lossy compression for image, audio and video coding. Video coding for videoconferencing and low data rate applications (H.261, H.263, H.26L, MPEG4 VLBV). Audiovisual system standards (H.324, H.221, H.223, H.245). MPEG standards family (MPEG-1, MPEG-2, MPEG-4, MPEG-7, MPEG-21) and applications. Video and voice over IP.

## **ELEC ENG 7046** **Power Quality and Fault Diagnostics**

3 units - semester 1

36 hours lectures, laboratory studies

Available for Non-Award Study

Assumed Knowledge: ELEC ENG 2008 or equiv

Assessment: 2 quizzes 25%, research based assignment 50%, final exam 25%

This course will address power quality issues and condition monitoring techniques used in electrical and 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. Fault Diagnostics: Importance, history, types and features of faults, test methods, sensors and measurement techniques, traditional and advanced diagnostic methods, case studies and real-time tests.

## **ELEC ENG 7047** **Studies in Electrical and Electronic Engineering A**

3 units - semester 1 or 2

Available for Non-Award Study

Topics as approved by the Head of School

## **ELEC ENG 7049** **Power Electronics Systems**

3 units - semester 2

24 hours lectures, tutorials

Available for Non-Award Study

Assumed Knowledge: ELEC ENG 1006 or ELEC ENG 1005, ELEC ENG 2008, APP MTH 2000, or equivalent

Assessment: Exam, assignments, quizzes

Efficiency and control concepts, methods of analysis. Feedback and Isolation Devices. Switching Devices. Switching characteristics of devices, power losses. Rectifiers. AC-AC Converters. DC-DC Converters. Inverters. Power supplies. Hard and soft-switching, resonant circuits. Advanced energy-efficient motor drives. Computer interfacing, network communication. EMI in Power Electronics Systems. Students will complete a major assignment allowing deeper exploration of one or more topics covered in lectures.

## **ELEC ENG 7050** **Microelectronic Testing and Design for Test**

3 units - Not available in 2009

30 hours of lectures, tutorials during mid-semester break

Available for Non-Award Study

Assumed Knowledge: A prior course or courses covering CMOS VLSI technology and design procedures, and integrated electronic systems

Assessment: Exam, assignments

Basic test approaches. Economics and role of testing. Automatic Test Equipment. Defects in CMOS technology, fault models and fault simulation. Automatic Test Pattern Generation. Parametric testing, functional & structural tests. Ad-hoc Design for Test rules. Boundary-scan test for systems and boards. Scan Path Testing Techniques. Logic Built-In Self Test and data compaction techniques to reduce test time for digital circuits. Memory testing and basic algorithms, memory Built-In Self-Test. Mixed-signal system and board testing and the analog boundary-scan test approach. Modelling of the analog faults for the semiconductor manufacturing. Mixed-signal testing using automatic test equipment and techniques for reducing the test complexity. Testing A/D and D/A using DSP, waveform generators and digitisers. Embedded testing of cores and IPs, core test standard.

## **ELEC ENG 7051** **Microelectronic Datapaths and Arithmetic**

3 units - semester 1

Available for Non-Award Study

Assumed Knowledge: linear circuit analysis techniques, operation & characteristic of field effect transistors, ability to design & analyse combinational & sequential logic circuits, binary number systems

Assessment: Exam 50%, assignments, project work 50%

Introduction and review: MOS transistors, CMOS logic, and combinatorial circuit design; CMOS fabrication and layout; VLSI design flow; CMOS leaf cell design; delay estimation and minimisation; Simulation, synthesis, place and route; interconnect engineering; review of sequential logic in CMOS; design margin, reliability and scaling;

CMOS logic families; system level considerations - floor planning, power dissipation, micro-architecture, clock routing; technology trends and challenges - data and configuration management, testing and verification, technology trends, alternative logic families; fixed point arithmetic - adders, multipliers, dividers; floating point units - shifters, comparators, coders, counters, one-zero detectors; alternative arithmetic structures.

## **ELEC ENG 7052** **Electromagnetic Theory & RFID Applications**

3 units - Not available in 2009

30 hours lectures, 6 tutorials

Available for Non-Award Study

Assumed Knowledge: familiarity with principles of circuit theory, signals and systems, electromagnetic theory

Assessment: End of semester exam, semester quizzes, assignments

Revision of basic electromagnetic theory. Lumped and distributed circuit theory. Practical circuit elements for HF and microwave communications. Reciprocity theory and its applications. Microwave networks and junctions. Terrestrial and space propagation. Signals and noise in receivers. Simple radar concepts. Modulation systems. High frequency communication signals and calculations. Fourier and Hilbert transforms. Construction of signalling waveforms and interpretation of their spectra. High frequency measurements. Electromagnetic compatibility regulations and measurements. Radio frequency identification concepts, applications, hardware, protocols and possibilities.

## **ELEC ENG 7053** **Analog Microelectronic Systems**

3 units - semester 2

28 hours lectures, tutorials & practical work

Available for Non-Award Study

Assumed Knowledge: familiarity with principles of circuit theory, characteristics of basic electronic devices such as diodes FETs and BJTs and CMOS fabrication processes

Assessment: Exam 50%, tests 5%, project 45%

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 7055** **Antennas and Propagation**

3 units - semester 2

Available for Non-Award Study

Theory of radiation, wire antennas, antenna arrays, aperture antennas, broadband antennas, numerical analysis, communications and radar systems, propagation.

## **ELEC ENG 7056** **RF Measurements and Testing**

3 units - not offered in 2009

Available for Non-Award Study

Network analysis, spectrum analysis, noise measurements, and active device characterisation.

## **ELEC ENG 7057** **Engineering Communication and Critical Thinking**

3 units - semester 1 or 2

Restriction: M.E./M.E.(Adv) Engineering students

Available for Non-Award Study

Engineering Communication and Critical Thinking provides strategies and practice in developing skills to enable students with English as a second language to maximize their capacity to learn and to interact effectively in an English speaking academic and professional environment. This course explores communication in a cross cultural setting, and provides strategies for effective academic and professional writing and seminar presentations. Seminars provide information about and practice in locating, analysing and evaluating appropriate sources of information, and consider differences in style and format of documents written for different purposes. The course provides the opportunity to develop skills for professional speaking in a variety of settings.

## **ELEC ENG 7058A/B** **Masters Project**

12 units - full year

270 hours practicals, 2 hours lectures

Prerequisite: ELEC ENG 7058A

Assumed Knowledge: ELEC ENG 7057 or equiv experience in professional & academic communication & analytical thinking

Assessment: Performance during project work, assessment of written reports, seminar presentations

Masters Project Part 2 must follow Masters Project Part 1 in the immediately following semester. The two-semester masters project aims to give students experience in solving advanced engineering problems and the opportunity to apply the knowledge gained during the course. Through the project students will gain experience in project planning, in teamwork and in communication with management and support staff. The project will also develop skills in design, verification and research.

## **ELEC ENG 7059** **Radar Principles & Systems - an Introduction**

3 units - semester 1

30 hrs lectures and tutorials

Prerequisite: Appropriate degree or experience

Assumed Knowledge: basis knowledge of linear systems, antenna theory, propagation and signal processing

Assessment: Exam, assignments

Overview of radar including physical principles, system components, the processing chain and typical applications. Detection and the radar equation including statistical detection theory and CFAR. Propagation,

scattering and clutter including attenuation, radar cross section, target fluctuations and ground clutter for airborne radar. FMCW radars including the Doppler effect, pulse compression, ambiguities and OTHR radar systems. Matched filters for radar including examples and relation to detection theory. Pulsed radars including spectrum, ambiguities and ghosting and pulse doppler radar. Radar waveforms and ambiguity functions and their role in system design. Antennas and phased arrays including beamforming, direction of arrival estimation, adaptive arrays and STAP Imaging and classification including SAR, ISAR and high range resolution radar.

## **ELEC ENG 7060** **Image Sensors and Processing**

3 units - semester 2

24 lectures, 6 tutorials

Prerequisite: Appropriate degree or experience

Assumed Knowledge: basis knowledge of linear systems, transform theory & signal processing

Assessment: Exam, assignments

Overview of imaging sensors and principles including various imaging devices. Measures of imaging quality through point spread function, resolution and spatial sampling.

Storage requirements, including image representation, coding and compression techniques, lossy versus lossless. Techniques for reducing noise in images, feature enhancement and recognition. Image enhancement including contrast manipulation, histogram equalization and derivative based operators. Segmentation and thresholding techniques Applications of morphology to image processing including erosion and dilation operations for binary and grey scale images. Filtering and transform techniques for image processing including two dimensional Fourier transforms, wavelets and convolution. Extension topics may include image registration, super-resolution techniques for video processing and object classification using features extracted from images.

## **ELEC ENG 7062** **Studies in Electrical and Electronic Engineering B**

3 units - semester 2

24 lectures, 6 tutorials

Prerequisite: Appropriate degree or experience

Assumed Knowledge: prescribed by Head, Electrical & Electronic Engineering

Assessment: May include exam, assignments

Special topics in Electrical and Electronic Engineering, as determined by the Head of the School. This course may be offered from time to time and will be taught by visiting academics.

## **ELEC ENG 7063** **Studies in Electrical and Electronic Engineering C**

3 units - semester 2

24 lectures, 6 tutorials

Prerequisite: Appropriate degree or experience

Assumed Knowledge: prescribed by Head, Electrical & Electronic Engineering

Assessment: May include tests, exam, assignments

Special topics in Electrical and Electronic Engineering, as determined by the Head of the School. This course may be offered from time to time and will be taught by visiting academics.

## **ELEC ENG 7065** **Sonar Sensors and Systems**

3 units - Not available in 2009

24 hrs Lectures, 6 hrs tutorial, Online as required

Prerequisite: Appropriate degree or experience

Assumed Knowledge: introductory knowledge of principles of linear systems, acoustics, digital systems, beamforming & statistical detection theory

Assessment: In-term assessments, exam

Introduction to sonar, The Sonar Equation - Acoustic Propagation, The Sonar Environment, Array Gain and Detection Threshold; Sonar Chain - The Wet End, Front End Conditioning, Array Processing, Active and Passive Signal Analysis and Post Processing; Sonar Systems Overview.

## **ELEC ENG 7066** **Power System Dynamics**

3 units - semester 1

45 hrs of lectures and tutorials

Available for Non-Award Study

Assumed Knowledge: ELEC ENG 3021, ELEC ENG 3016 or equiv

Assessment: Quizzes, assignments, research project

Power System Stability - Basic Concepts: Structure of the Power System; Classification of Power System Dynamics; Terms & Definitions

Modelling of Synchronous Machines and Associated Controls: Synchronous Generators; Excitation Systems; Turbines and Governors. Modelling of Transmission System: AC Transmission; HVDC and FACTS. Small-Disturbance Stability: Time-domain Analysis; Modal Analysis using Linearised Model; Characteristics of local and inter-area oscillations; Enhancement of Small-Disturbance Stability. Large-Disturbance (Transient) Stability: Description of Transient Stability; Time-domain Analysis; Equal-Area Criterion and Related Methods; Enhancement of Large-Disturbance Stability. Voltage Stability: Voltage Stability Definition and Criteria; Mechanism of Voltage Collapse; Types of Voltage Stability Studies; Prevention of Voltage Instability. Power System Dynamic Security: Security Assessment Tools; Security Margins and Preventive & Corrective Control; Real-Time Monitoring and Control.

## **ELEC EN 7067** **Introduction to Quantum Computation**

3 units - Not available in 2009

36 hours lectures, 9 hours tutorials

Available for Non-Award Study

Assumed Knowledge: PURE MTH 2002 or equiv

Assessment: Exam and project work

This course will serve as an introduction to and as a survey of the field of quantum computing. Quantum computation is an emerging field with the goal of designing computers that exploit the parallelism inherent in the quantum mechanical laws of the universe. Quantum computers are fast becoming a reality, and due to the fact that information stored in the quantum state of a physical system has properties that contrast sharply with the familiar properties of "classical" information, computers that exploit the quantum properties of information could perform certain types of calculations far more efficiently than any classical computer.

The course aims to equip the student with the knowledge to comprehend current literature and developments in the field. It will also provide the basis for further study in the fields of Quantum Information and Quantum Computing. Topics include quantum algorithms, basic complexity theory, quantum error correction, and quantum cryptography.

## **ELEC ENG 7068** **Power System Monitoring and Protection**

3 units - Not available 2009

36 hours lectures, 9 hours tutorials

Assumed Knowledge: ELEC ENG 3021 Electric Energy Systems and ELEC ENG 3016 Control III or equivalent

Assessment: Quizzes, assignments, research project

Hardware & Signal Processing Algorithms: Transducers & Signal Conditioning; Sampling, Quantization, A/D conversion; Hardware Fundamentals (digital relays, digital fault recorders); Signal Modelling and Estimation; Segmentation of Non-stationary Signals; Measurement Algorithms. Primary Plant Modelling: Transmission Lines and Cables, Transformers, Reactors and Capacitors, Synchronous Generators, Induction Motors, Loads, Parameter Identification Algorithms. Digital Protection Functions and Applications: Transmission Line Protection Algorithms; Distance Protection Application; Transformer Protection Algorithms. Analysis of Faults and Events using Digital Records: Faults and Voltage Dips; Fault Location; Resonant Conditions (sub-synchronous: shunt reactors, series capacitors; resonant-grounded networks, Ferro-resonance...); Transformer Saturation (energising, fault application and fault clearing). Protection Performance Analysis using Digital Records: Distance Protection Performance; Circuit-breaker Performance. System Wide Monitoring and Protection: Substation Data Integration and Information Extraction; System-Wide Data Integration and Information Extraction; Topology Tracking and State Estimation; Wide-Area Disturbance Monitoring; Wide-Area Protection Systems (out-of-step, load shedding).

## **ELEC ENG 7069** **Electrical Energy Systems**

3 units - semester 2

24 hours lectures, 6 hours tutorials, 12 hours practicals

Available for Non-Award Study

Assumed Knowledge: ELEC ENG 1006, ELEC ENG 2009 or equivalent

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 7070** **Introduction to Computational Electromagnetics**

3 units - semester 2

24 hrs lectures, 6 hrs tutorial, 6 hrs computer practicals

Available for Non-Award Study

Assumed Knowledge: This course assumes some introductory knowledge of the principles of Electromagnetics and RF Engineering

Assessment: Exam, assignments, project report

Computer-aided modelling has become indispensable for the design of electromagnetic (EM) devices from radio frequencies to the optical range. The aim of this lecture is to introduce some of the most widespread numerical techniques used at present for the "full-wave" solution of Maxwell's equations. The course will start with an overview, including a classification of the different EM numerical methods according to specific characteristics. It will then describe the most widespread general-purpose techniques, in particular the Finite-Difference Time-Domain (FDTD) method, the Finite-Element Method (FEM) and the Method of Moment (MoM). Other powerful but less known techniques will be briefly described during the course. For each method presented, the basic algorithm will be explained, as well as the treatment of boundaries and materials. Furthermore, information about pre- and post-processing aspects that are crucial for practical applications will be provided, together with real-world illustrative examples. The understanding of the course material should help the student to become educated users of commercial simulation tools.

This course assumes solid knowledge of electromagnetics and interest in numerical techniques. Computer assignments will help enhance the comprehension of selected aspects of the numerical implementations.

## **ELEC ENG 7071** **Detection, Estimation and Classification**

3 units - semester 1

24 hrs lectures, 12 hrs tutorials, Online

Available for Non-Award Study

Assumed Knowledge: Undergraduate level signal processing, random processes and statistics

Assessment: Final exam 55%, 3 assignments each 15%

Probability, random variables, distribution functions. Examples of discrete and continuous distributions. Characteristic functions, moments. Functions of random variables. Statistical hypotheses. Bayes and Neyman-Pearson criteria, likelihood ratio test. Asymptotic power of a statistical test. Locally optimal detection. Robust detection. Linear minimum variance estimation. Maximum likelihood estimation. Properties of estimators. Error bounds. Linear classification. Non-linear classification using Kernel methods. Support vector methods.

## **Mechanical Engineering**

### **MECH ENG 7020** **Materials Selection and Failure Analysis**

3 units - Not offered in 2009

45 hours lectures & tutorials

Available for Non-Award Study

Assessment: Assignments 30%, project 20%, final exam 50%

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 7021** **Combustion Technology and Emissions Control**

3 units - semester 1

45 hours lectures & tutorials

Available for Non-Award Study

Assessment: Assignments, project, 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 7023 Fracture Mechanics**

3 units - semester 2

45 hours lectures & tutorials

Available for Non-Award Study

Assumed Knowledge: MECH ENG 2002

Assessment: Assignments, project, final exam

The focus of this course is on the principles of linear elastic and elasto-plastic fracture mechanics and their application to engineering design. The material is presented in a conversational, yet rigorous, manner with the focus on basic concepts, models and techniques devised to solve specific engineering problems. The choice of the subject matter was determined largely by needs of aeronautical and mechanical engineering, although it is believed that the subject matter will be found just as useful for automotive, civil engineering and naval architecture

### **MECH ENG 7024 Robotics M**

3 units - semester 1

45 hours lectures & tutorials

Available for Non-Award Study

Assumed Knowledge: MATLAB

Assessment: Assignments, project, 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 7025 Topics in Welded Structures**

3 units - semester 1

36 hours lectures & tutorials

Available for Non-Award Study

Assessment: Assignments, project, 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 7026 Advanced Topics in Fluid Mechanics**

3 units - semester 2

45 hours lectures & tutorials

Available for Non-Award Study

Assessment: Assignments, project, final exam

The course provides an overview of modern flow measurement and analysis techniques and the methods used to interpret velocity and flow data. The course then introduces the concepts and techniques of flow topology and vortex dynamics, and uses these to describe the flow phenomena associated with fundamental flows, engineering flows and flows in nature. A project is undertaken by each student, involving a literature review, analysis or experiment. Projects are assessed on the basis of a short report and a presentation to the class.

### **MECH ENG 7027 Engineering Acoustics**

3 units - semester 1

45 hours lectures & tutorials

Available for Non-Award Study

Assessment: Assignments, project, 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 7028 Advanced PID Control**

3 units - semester 1

45 hours lectures & tutorials

Available for Non-Award Study

Assessment: Assignments, project, final exam (written & MATLAB)

Advanced topics in automatic control system design. Emphasis will be placed on techniques used to accommodate uncertainty in practical systems.

### **MECH ENG 7029 Airconditioning**

3 units - semester 2

45 hours lectures & tutorials

Available for Non-Award Study

Assessment: Assignments, project, practical, final exam

Vapour compression cycles; heat transfer in two-phase flow; types, selection and operation of refrigeration plant; psychrometrics; climatic data and its use; load estimation and analysis; constant and variable air volume systems; human comfort and health; cooling and dehumidifying coils; controls; fans and duct systems; system balancing; energy efficiency in buildings.

## **MECH ENG 7030** **Advanced Vibrations**

3 units - semester 1

45 hours lectures & tutorials, 6 hours laboratory experiments

Available for Non-Award Study

Assessment: Assignments & laboratory experiments, final exam & individual project

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 7034** **Advanced Digital Control**

3 units - semester 2

45 hours lectures & tutorials

Available for Non-Award Study

Assessment: Assignments, project, final exam

Design and analysis of mechatronic systems; microcontroller and high end processors for mechatronic system control; artificial intelligence algorithms and their applications, digital state-space control design.

## **MECH ENG 7038** **Aerospace Propulsion II**

3 units - semester 2

36 hours lectures & tutorials

Available for Non-Award Study

Assessment: Assignments, project, final exam

Introduction to advanced rocket and air-breathing (gas turbines, ramjets, ducted rockets, scramjets) jet propulsion systems. Prediction of thrust, combustion reactions, specific fuel consumption and operating performance. Aerothermodynamics of inlets, combustors, nozzles, compressors, turbines.

## **MECH ENG 7041A/B** **Masters Project**

12 units - full year

480 hours

Prerequisite: Student must enrol into MECH ENG 7041A in previous semester

Assessment: Evaluation of performance including research thesis, literature review, oral presentations

Students usually work in groups on a research thesis under the supervision of an academic staff member

## **MECH ENG 7042** **Introduction to Submarine Design**

3 units - semester 2

40 hours

Restriction: Marine Engineering students only

Assessment: Project 70%, assignments 30%

Introduction to submarine design gives the student an understanding of the basic principles of submarine design in a complex modern multi platform system. The course demonstrates how operating constraints

such as the operating depth, endurance and even the operating environment add to the constraints placed on the design. Particular emphasis is placed on pressure hull design giving each student a thorough grounding in the requirements of design for survival. The relationship between operating depth, crush depth and modes of failure are examined in detail.

## **MECH ENG 7043** **Stresses in Plates and Shells**

3 units - semester 2

45 hrs lectures & tutorials

Available for Non-Award Study

Assumed Knowledge: APP MTH 2000, APP MTH 2002, APP MTH 2009, Levels I/II/III Engineering

Assessment: Assignments, project, 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 plates, special and approximate methods in theory of plates and shells, thermal stresses in plates, theory of edge effect, buckling, membrane theory of shells, bending theory of axisymmetrically loaded circular cylindrical shells and its application to pipes, tanks and pressure vessels, finite element analysis of plate and shell structures

## **MECH ENG 7044** **Biomechanical Engineering**

3 units - semester 2

45 hrs lectures & tutorials

Available for Non-Award Study

Assessment: Assignments, project, 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 7045** **CFD for Engineering Applications**

3 units - semester 1

45 hrs lectures and tutorials

Available for Non-Award Study

Assessment: Assignments, project, final exam

The course will equip the students with the necessary knowledge to use advanced computational techniques to solve problems related to flow mechanics. In

particular, students will have hands on experience in using computational fluid dynamics to solve engineering problems. Numerical representation of flow behaviour and solution schemes and convergence criteria will also be covered in the course.

### **MECH ENG 7046 Submarine Design 102**

3 units - semester 1

Incompatible: MECH ENG 7042

Syllabus details to be advised.

### **MECH ENG 7047 Dynamics & Control II**

3 units - semester 2

45 hrs lectures and tutorials

Available for Non-Award Study

Assessment: exam 60% , assignment 15%, laboratory 5% , project 20%

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 7048 Introduction to Naval Ship Design**

3 units - semester 2

36 hours lectures/tutorials

Available for Non-Award Study

Assessment: Assignments, project, final exam

General introduction to naval ships and the operational requirements for naval ships, the naval ships design and development process and all its phases, buoyancy and stability, powering and manoeuvring, material aspects,

the naval ship systems: electrical, mechanical, combat, weapons and safety systems.

### **MECH ENG 7050 Sustainability & the Environment**

3 units - semester 1

45 hours 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 7051 Computational Acoustics**

3 units - semester 2

36 hours lectures, 25 hours practicals

Available for Non-Award Study

Assumed Knowledge: MECH ENG 3017

Assessment: Assignments, 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 7052 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 3020, MECH ENG 3031, MECH ENG 3028

Assessment: Assignments, 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 7053 Aerospace Propulsion**

3 units - semester 1

45 hours lectures, 5 hours practical

Available for Non-Award Study

Assumed Knowledge: MECH ENG 3020, MECH ENG 3031

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 7055** **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 experimental methods as well as wind codes and standards to evaluate the wind effects are also included.

### **MECH ENG 7059** **Finite Element Analysis of Structures**

3 units - semester 1

36 hours lectures & tutorials

Available for Non-Award Study

Assumed Knowledge: CIV ENG 1001, MECH ENG 1000, MECH ENG 2002, MECH ENG 2021, APP MTH 2000

Assessment: Assignments, project, final exam

The course will equip the students with the necessary knowledge to use computational techniques to solve problems related to solid mechanics. In particular, students will have hands-on experience in using finite element analysis to solve realistic engineering problems.

### **MECH ENG 7060** **Mechanical Signature Analysis**

3 units - semester 2

36 hours lectures, 12 hours practicals

Available for Non-Award Study

Assumed Knowledge: MECH ENG 2011, APP MTH 2000

Assessment: Assignments, in-class quizzes, laboratory classes, project and 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 7061** **Corrosion: Principles & Prevention**

3 units - semester 2

45 hours lectures and tutorials

Available for Non-Award Study

Assessment: Assignments, project and final exam

Fundamentals of corrosion: free energy of oxidation, oxidation and reduction reactions. Pourbaix diagrams, corrosion kinetics, polarisation curves, passivation. Design against corrosion. Investigating corrosion failures. Atmospheric and general corrosion, bimetallic corrosion. Differential aeration corrosion; pitting, corrosion, MIC. Environmentally assisted cracking, erosion. Case studies into corrosion failures, identifying mechanisms and evaluating mitigation strategies

### **MECH ENG 7062** **Aircraft Design**

3 units - semester 1

45 hours lectures and tutorials

Available for Non-Award Study

Assessment: Assignments, project, 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 vehicles, as well as pros and cons of different layout schemes of aircraft. The course is concluded by presenting design projects and discussing the achieved results by the students.

### **MECH ENG 7063** **Advanced Topics in Aerospace Engineering**

3 units - semester 2

45 hours lectures and tutorials

Available for Non-Award Study

Assessment: Assignments, project, 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.

## **Petroleum Engineering**

### **PETROENG 7001** **Petrophysics**

2 units - semester 1

Intensive short course of lectures, tutorials, seminars

Available for Non-Award Study

Assessment: Assignments, group discussions, exam

Introduction to Petrophysics will give participants an overview of petrophysics: well logging concepts and basic rock properties, wellbore environment, petrophysical tools

and interpretation concepts. Fundamentals of Openhole Log Interpretation gives a practical understanding of the interpretation of wireline tools and techniques, including the determination of lithology, porosity, fluid content and movement, and net pay. Both, qualitative (quick look) and quantitative analyses methods are covered. Practical aspects, such as logging operations, including MWD, and logging program design will also be addressed. Practical examples are used throughout and case histories are used to demonstrate specific aspects. Specialised Methods and Recent Advances gives an overview of dipmeter and borehole imaging, as well as NMR, and determination of permeability from logs.

### **PETROENG 7002 Reservoir Engineering**

2 units - semester 1

Intensive short course of lectures, tutorials, seminars

Available for Non-Award Study

Assumed Knowledge: Relevant industry experience or MATHS 1200, PHYSICS 1100, PETROENG 1001 or 1006, 2001,2005,2009

Assessment: Assignments, group discussions, exam

Introduction: What is reservoir engineering; Role of Reservoir Engineer; Multidisciplinary Aspects; Key definitions related to Reserves and other terminologies; Types of Reservoirs and Reservoir Processes; Size of the Prize: How much oil is there and does it have the energy to produce it by itself? Lab demo on PVT properties and fluid viscosity estimation, will it flow through the reservoir formation (rock)?

[Darcy's Law and Applications. Permeability, relative permeability, Capillary pressure, Wettability and their linkage. How to estimate what's produced, what's remaining and how much we can produce? [material balance, equations for different types of reservoirs and drives, aquifer behavior and water influx (van Everdingen-Hurst and Fetkovich methods)]. Decline Curve Analysis,. When the reservoir needs help to produce the oil, who does it call? Introduction to Enhanced/Improved Oil & Gas Recovery.Processes - Immiscible Displacement, Buckley- Leverett theory, Welge's method, Gravity-Stable Displacement, Water and Gas Injection, Coning and Cusping, Asphaltenes and High WOR and GOR Problems Monitoring, surveillance and making future production projection [What it is, what's involved, how it is done, introduction of simulation concepts and IPR analysis]. Introduction to fundamental gas reservoir engineering principles and Pressure Transient Analysis. Multi-disciplinary Aspects and Field Development Issues.

### **PETROENG 7006 Petroleum Project Economics**

2 units - semester 2

Intensive short course of integrated lectures and computer based worked examples

Restriction: Students in specified programs only. Please check relevant Academic Rules

Available for Non-Award Study

Assumed Knowledge: PETROENG 1005, competency in Excel, familiarity with decision-analysis & Monte Carlo simulation in particular

Assessment: Assignments, group discussions, 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 studies and portfolio management. If time permits, there will be an introduction to real options analysis and its application to valuing managerial flexibility and risk.

### **PETROENG 7009 Decision-Making and Risk Analysis**

2 units - semester 1

Intensive short course of integrated lectures & computer-based worked examples

Restriction: Students in specified program only, please check relevant Academic Rules

Available for Non-Award Study

Incompatible: Cannot be taken in combination with PETROENG 7049, 4024 or 4027

Assessment: Assignments, group discussions, 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 7049 is a more extensive 3-unit version

### **PETROENG 7012 Oil and Gas Resources and Reserves**

2 units - semester 1

Intensive short course of lectures, tutorial, seminars

Available for Non-Award Study

Assessment: assignments, group discussions, exam

This course explains the strength and weaknesses of various reserves estimating methodologies, including the difference between resources and reserves. Exploration and development views will be covered, as are deterministic and probabilistic methods, with the aim of gaining a thorough understanding of various reserves levels and their equivalence in both systems, in terms of proved, proved plus probable, and proved plus probably

plus possible. Methodologies of different countries will be covered. Statistical software will be used to demonstrate important concepts and to handle complex scenarios. The course will cover alternative estimation methods, such as volumetrics, material balance and decline curve analysis. An appreciation will be gained of data limitations and uncertainty and how this is reflected in final volumes and hence risk. The course also covers management and commercial issues and regulations.

### **PETROENG 7014 Project A**

4 units - semester 1 or 2

Case studies, field visits

Available for Non-Award Study

Assessment: project reports & presentation

This course offers students the opportunity to carry out a mini-research project or to undertake self-directed, detailed exploration a topic of interest. Students are strongly encouraged to develop their own proposals in line with current or expected professional interests. The final project title and outline must be approved by the Academic Director of the program. It shall be conducted under the supervision of one of the academic staff and may be under-taken outside the University (for example, with an industrial host or sponsor) so long as adequate contact is maintained with the academic supervisor. Evaluation of the project will be conducted jointly by the relevant academic staff and industry practitioners.

Students wishing to do an 8 unit project, if approved by the program academic director, should also enroll in PETROENG 7046 Project B. In this case, it will normally be expected that a single 8 unit project is carried out (as opposed to two separate 4 unit projects).

### **PETROENG 7023 Project Management**

2 units - semester 2

Intensive short course of lectures, tutorials, seminars

Available for Non-Award Study

Assessment: assignments, group discussions, exam

Project Management Concepts (1 day module) outlines the necessary management processes and control methods required for the successful management of resources, budgets and costs, and schedule. Project Management in Practice (3 day module) covers all major elements of project management, with emphasis on delivering a project in budget and on time. Technical project drivers are analysed with respect to critical factors, for example the critical path item in the overall project schedule. Methodologies related to cost and budget estimates are presented. Discussed are tendering and contracting methodologies and their strategies are exemplified through case histories. Control methods for cost and budgets are covered, as are commercial and regulatory constraints.

Technical Uncertainties and Risks in Project Management (1 day module) deals with aspects of uncertainties and risks, as they relate to reservoirs, wells and facilities.

Management and mitigation of these risks are also discussed.

### **PETROENG 7031 Reservoir Characterization and Modelling**

3 units - semester 1

Intensive short course of integrated lectures & computer based worked examples

Restriction: Students in specified programs only, please check relevant Academic Rules

Available for Non-Award Study

Assumed Knowledge: PETROENG 1005 and 2009, Competency in Excel, basic probability and statistics

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 7032 Integrated Reservoir Management**

2 units - semester 2

Intensive short course of lectures, tutorials, seminars

Available for Non-Award Study

Assessment: Assignments, group discussions, exam

Reservoir Management Overview gives an overview of the life cycle for developing and producing a field, from discovery to abandonment, and outlines the associated reservoir management problems and solutions. In particular highlighted are issues related to maximising recovery or project value, and minimising uncertainty and risk, and how to mitigate the latter. Fundamentals of Reservoir Management deals with all aspects of reservoir management, covering various project phases: field appraisal, project identification and definition, feasibility and detailed design, construction and commissioning, production and abandonment. Various methods and techniques for maximising recovery are explained, such as material balance decline curve analysis, and other performance and production analysis methods. Methods from various disciplines are covered, such as geological characterisation, seismic monitoring and well test analysis. Well and facility related aspects are presented, in as much as they may impact the management of reservoirs.

Regulation and Surveillance in Reservoir Management deals with regulatory aspects related to reservoir management, including reporting requirements. This module also covers reservoir surveillance techniques, in particular as required by regulatory bodies. The emphasis will be on Australian regulations (Petroleum Submerged Lands Act) but certain generalisations and some worldwide examples are also presented, including case histories.

### **PETROENG 7035 Reservoir Simulation**

3 units - semester 2

Intensive short course of lectures, tutorials, seminars

Available for Non-Award Study

Assessment: In-class assignments, group discussions, 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 7038 Well Testing and Pressure Transient Analysis**

3 units - semester 1

Intensive short course of lectures, tutorials, seminars

Available for Non-Award Study

Assessment: In-class assignments, group discussions, quiz, final assessment test in-class

Understanding of basic assumptions of the models, used for test interpretation, fluency in formulation of interpretation problem as inverse and forward problems, understanding analytical solutions and their approximations, knowing areas of solution validity is the key to successful work in well test planning, design and interpretation. Therefore, the purpose of this course is to teach basics of well test analysis. The course covers well test objectives and concepts; fluid flow equations and fundamental solutions; classical methods for drawdown and build-up analysis, bounded reservoirs, gas well testing, dual-porosity, hydraulic fractures, interference and pulse testing, test design.

Overview of practical methods, some field examples and browsing software Saphir from Kappa Engineering will introduce students into practice of well testing and pressure transient analysis.

### **PETROENG 7040 Enhanced Oil Recovery**

3 units - semester 1

Lectures, tutorials

Available for Non-Award Study

Assumed Knowledge: Relevant experience or MATHS 1012, PHYSICS 1100, PETROENG 1001 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 7041 Gas Fields Optimisation**

2 units - semester 2

Intensive short course of lectures, tutorials, seminars

Available for Non-Award Study

Assessment: Assignments, tutorials, 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 7042 Drilling Engineering and Well Completion**

3 units - semester 2

Intensive short course of lectures, tutorials, seminars

Available for Non-Award Study

Assessment: Assignments, group discussions, 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 7043** **Integrated Field Developm't Planning & Econ Project**

3 units - semester 2

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Intensive short course of lectures, tutorials, seminars

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Available for Non-Award Study

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Assessment: Assignments, group discussions, exam

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Field Development Planning gives an overview of the process and methods for developing an optimum plan for developing a petroleum deposit. Key project drive indicators are discussed and it is shown how various disciplines interact in their quest for maximising the value of a project. It 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. The second part of the project involves the feasibility and derivation of the optimum development plan. Participants work in small teams and will submit written plans and give presentations in front of a panel.

## **PETROENG 7044** **Petroleum Geology and Geophysics**

2 units - semester 1

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Intensive short course of lectures & exercises

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Available for Non-Award Study

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Assessment: Exam

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Petroleum Geology provides a working knowledge of the main qualitative and quantitative techniques used by petroleum geologists in evaluating subsurface reservoir properties. Commencing with 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 Petroleum Geophysics component begins with the principles of reflection seismology, such as wave propagation phenomena, and seismic velocity and resolution. It provides an overview of data acquisition and processing methods. The mechanics of seismic interpretation are explained, including a brief introduction to depth conversion. Finally, techniques which are useful in evaluating reservoir and fluid properties, such as seismic attributes, DHIs and AVO, and time lapse seismology, are briefly discussed. The advantages of 3D surveying are emphasised

## **PETROENG 7046** **Project B**

4 units - semester 1 or 2

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Available for Non-Award Study

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Assessment: Project report & presentation

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This course offers students further opportunity to carry out a mini-research project or to undertake self-directed, detailed exploration a topic of interest. In combination with Project A, it enables a maximum of 8 units of project or research work, subject to approval by the director of the Academic Program. It will normally be expected that a single 8 unit project is carried out (as opposed to two separate 4 unit projects). As with Project A students are strongly encouraged to develop their own proposals in line with current or expected professional interests. The final project title and outline must be approved by the Academic Director of the program. It shall be conducted under the supervision of one of the academic staff and may be undertaken outside the University (for example, with an industrial host or sponsor) so long as adequate contact is maintained with the academic supervisor. Evaluation of the project will be conducted jointly by the relevant academic staff and industry practitioners.

Students wishing to do an 8 unit project, if approved by the program academic director, should also enroll in PETROENG 7014 Project A.

## **PETROENG 7049** **Advanced Managerial Decision Making and Risk Analysis**

3 units - semester 1

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Intensive short course of integrated lectures & computer based worked examples

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Restriction: Students in specified program only, please check relevant Academic Rules

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Available for Non-Award Study

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Assumed Knowledge: PETROENG 1005, competency with Excel

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Incompatible: Cannot be presented with PETROENG 7009, 4027 or 4024

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Assessment: Assignments, group discussions and exam

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This course is a 3-unit alternative to PETROENG 7009, Decision Making and Risk Analysis. In addition to the material in 7009, 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 7050** **Production Engineering and Optimisation**

3 units - semester 2

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Intensive short course of lectures, tutorials and seminars

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Restriction: Students in specified program only, please check relevant Academic Rules

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Available for Non-Award Study

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Assessment: Assignments, project (written & oral presentation)

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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 7051  
Formation Damage in Petroleum Reservoirs**

2 units - Not offered in 2009

56 hours intensive course

Available for Non-Award Study

Prerequisite: MATHS 1011, MATHS 1012

Assessment: Assignments, Final assessment test in-class, take home tasks

The course covers formation damage in injection and production wells, its prediction, mathematical and laboratory modeling, 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, asphaltenes 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.

**SIP 7031  
Sonar Sensors and Systems**

3 units - Not available in 2009

24 hours lectures, 6 hours tutorials, online as required

Prerequisite: appropriate degree of experience

Assumed Knowledge: Introductory knowledge of principles of linear systems, acoustics, digital systems, beamforming and stat detection theory

Assessment: Intermediate assessment 50%, exam 50%

Introduction to Sonal, The Sonar Equation - Acoustic Propagation, The Sonar Environment, Array Gain and

Detection Threshold; Sonar Chain - The Wet End, Front End Conditioning, Array Processing, Active and Passive Signal Analysis and Post Processing; Sonar System Overview.

**Technology & Communications**

**TECHCOMM 5001  
Marketing Technology and Innovation**

3 units - semester 1

Intensive - check ECIC website

Available for Non-Award Study

Assessment: Individual & group paper, contribution to discussion online & during workshops

Develops an understanding of the forces driving competition and demand in markets or technology-intensive products and services. Covers product management decisions (design, channels/logistics, pricing/promotions etc.) across stages of product life cycles affecting innovative and/or technology products. Enhances skills in analysing competitive trends, identifying threats and opportunities, designing new products, and/or marketing strategies. Students develop a marketing strategy and perform a market analysis to define potential markets for an innovation and/or a technology.

**TECHCOMM 5002  
Managing Product Design and Development**

3 units - semester 1

Intensive - check ECIC website

Available for Non-Award Study

Assessment: Individual & group paper, contribution to discussion online & during workshops

Addresses the many and best practices organisations are using to accelerate the product development and production processes. Students develop case studies of methodologies for managing the technology and product development cycle.

**TECHCOMM 5003  
Strategic Analysis for Tech Commercialisation**

3 units - semester 1

Intensive - check ECIC website

Available for Non-Award Study

Assessment: Individual & group paper, contribution to discussion online & during workshops

In this course we study approaches to technology and commercialisation as part of business and corporate strategy. Two main frameworks used are Michael Porter's Five Forces and Clusters models, and the Resource Based View. We then develop them significantly by studying the economics of information rich products and relevant case study analyses.

## **TECHCOMM 5004 Managing Risk**

3 units - semester 1 or 2

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Intensive - check ECIC website

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Available for Non-Award Study

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Assessment: Assignments, group & individual

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The course addresses decision and risk analysis, methods for structuring and modelling decision problems, and application of methods to a variety of problems that involve risk and uncertainty related to the commercialisation of new technologies and development of projects. Students apply risk analysis tools to a commercialisation assessment problem or a project development.

## **TECHCOMM 5004SY Managing Risk**

3 units - semester 1

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The course addresses decision and risk analysis, methods for structuring and modelling decision problems, and application of methods to a variety of problems that involve risk and uncertainty related to the commercialisation of new technologies and development of projects. Students apply risk analysis tools to a commercialisation assessment problem or a project development.

## **TECHCOMM 5005 Financing Commercialisation**

3 units - semester 2

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Intensive - check ECIC website

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Available for Non-Award Study

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Assessment: Individual & group paper, contribution to discussion online & during workshops

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Examines financial planning methods for determining capital requirements, and various ways of financing growth and making investment decisions. Among the forms of financing examined are angels and informal investors, venture capital, debt capital, and inside and outside equity. Students create plans for the financing of a technology venture.

## **TECHCOMM 5006 Technology Management and Transfer**

3 units - semester 2

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Intensive - check ECIC website

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Available for Non-Award Study

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Assessment: Individual & group paper, contribution to discussion online & during workshops

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Addresses the evaluation, formulation and use of technology transfer models. Emphasis is placed on case studies of facilitating factors and barriers to collaborative relationships. Students develop and document a technology transfer model.

## **TECHCOMM 5007 Legal Issues of the Commercialisation Process**

3 units - semester 2

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Intensive - check ECIC website

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Available for Non-Award Study

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Assessment: Identification of a project topic and developing the objectives of this project

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Examines the numerous legal challenges organisations face as they commercialise technology in a global environment. In addition to studying the basic regulatory requirements for intellectual property and patent protection, students gain an understanding of the process of technology licensing and methods for valuation of intellectual property. Students develop strategies and plans by which to manage and protect the knowledge assets of a technology venture.

## **TECHCOMM 5008 Leading and Managing**

3 units - semester 1

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Intensive - check ECIC website

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Available for Non-Award Study

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Assessment: Individual & group paper, contribution to discussion online & during workshops

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We expose you to a variety of issues, authors, ideas, that pertain to relationships within and without organisations, in different industries and across national boundaries. This course, designed around classroom lectures, academic articles and case studies, relies heavily on the contribution from participants' experience and exchange of ideas regarding the topics covered.

Initially, we will focus on some broad matters such as what is meant by the terms 'leading' and 'managing'. While some consider them to be the same thing, they are really suggesting that we should all be both leading (providing vision, motivation and energy to the organisation) and managing (focusing on narrower administrative tasks), perhaps at different times. Closely connected is the question of leadership style and how entrepreneurs behave. All of this is interwoven with analysis of culture: company, professional, national.

## **TECHCOMM 5010 Technology Project Management 1**

3 units - semester 1

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Intensive - check ECIC website

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Available for Non-Award Study

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Assumed Knowledge: TECHCOMM 5021 - students without 2 yrs work experience in software project management may find this course difficult

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Assessment: Assignments, individual & group

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This course focuses primarily on the project management of software intensive projects and the ways project management of software projects differs from project management of other projects. The course includes developing scenarios and the use of systems engineering principles, identifying requirements, selection of a project approach, effort estimation, risk management, estimating cost and time, managing quality, identification of a project delivery system and configuration management.

## **TECHCOMM 5011**

### **Internationalisation of Technology**

3 units - semester 2

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Intensive - check ECIC website

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Available for Non-Award Study

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Assessment: Individual & group paper, contribution to discussion online & during workshops

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Addresses a broad and special set of issues of commercialising technology on a global scale, including international country policies, supra-country trade policies (including GATT, NAFTA, etc.), import/export processes, financing issues, critical technologies and country profiles. Addresses importing or exporting a new technology or intellectual property to any foreign market through a variety of technology transfer strategies, which account for public policies and interrelated competitiveness issues. Students engage in role-playing exercises designed around an international commercialisation project.

## **TECHCOMM 5013**

### **Systems Engineering 1**

3 units - semester 2

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Intensive - check ECIC website

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Available for Non-Award Study

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Assumed Knowledge: TECHCOMM 5021

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Assessment: 3 individual assignments

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Systems Engineering is closely aligned with the main aspects of project management. It can be seen as a component and development of project management in an area of detail practised primarily by defence, manufacturing and IT&T. This course introduces participants to the concepts and techniques of Systems Engineering. The course focuses on requirements engineering, systems design, verification and validation, systems analysis and system engineering management.

## **TECHCOMM 5014**

### **Project Management Techniques**

3 units - semester 1 or 2

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Intensive - check ECIC website

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Available for Non-Award Study

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Assumed Knowledge: Applied Project Management 1

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Assessment: Assignments, individual & group

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This course is the intermediate core course between Applied Project Management 1 and Applied Project Management 2 in the Master of Project Management. It covers the management techniques required to achieve outcomes on projects in each of the areas of scope, time, cost, quality, procurement, human resources and communication. Further development of scenarios and the use of project management in various industries, including Information technology, defence, construction, roll-out of government services, social, finance, medical, research and commercialisation occurs.

## **TECHCOMM 5014SY**

### **Project Management Techniques**

3 units - semester 1

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This course is the intermediate core course between Applied Project Management 1 and Applied Project Management 2 in the Master of Project Management. It covers the management techniques required to achieve outcomes on projects in each of the areas of scope, time, cost, quality, procurement, human resources and communication. Further development of scenarios and the use of project management in various industries, including Information technology, defence, construction, roll-out of government services, social, finance, medical, research and commercialisation occurs.

## **TECHCOMM 5015**

### **Project and Innovation Finance and Accounting**

3 units - semester 1 or 2

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Intensive - check ECIC website

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Available for Non-Award Study

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Assessment: Individual class exercises, major assignment

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Engineers, scientists, technologists and those starting new ventures understand that a good grasp of accounting and financial management disciplines are crucial to success. This course is designed to take such professionals through the essential knowledge and skills development in areas such as: accounting concepts, understanding and analysing financial statements, book keeping, the accounting cycle, cash flow, company accounting, budgeting and planning, an introduction to management accounting. This course introduces financial modeling, analysis of project proposals and cost optimisation. Major topics include the time value of money and capital budgeting processes, depreciation, capitalisation and valuation, sensitivity analysis, value management, earned value, life cycle costing. It includes familiarisation with and use of computer software applications. Application of projects and innovative new ventures.

## **TECHCOMM 5015SY**

### **Project and Innovation Finance and Accounting**

3 units - semester 2

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Engineers, scientists, technologists and those starting new ventures understand that a good grasp of accounting and financial management disciplines are crucial to success. This course is designed to take such professionals through the essential knowledge and skills development in areas such as: accounting concepts, understanding and analysing financial statements, book keeping, the accounting cycle, cash flow, company accounting, budgeting and planning, an introduction to management accounting. This course introduces financial modeling, analysis of project proposals and cost optimisation. Major topics include the time value of money and capital budgeting processes, depreciation, capitalisation and valuation, sensitivity analysis, value management, earned value, life cycle costing. It includes familiarisation with and use of computer software



applications. Application of projects and innovative new ventures.

### **TECHCOMM 5016 Entrepreneurship and Innovation**

3 units - semester 1

Intensive - check ECIC website

Available for Non-Award Study

Assessment: Coursework, including class presentations

This course aims to provide students with an understanding of the nature of enterprise and entrepreneurship and furthers the understanding of the role of innovation and technology and their efficient management to build and maintain a competitive edge in an entrepreneurial business. The course provides entrepreneurs and managers with a set of concepts and tools to improve the competitiveness of their venture or organisation. The course is relevant to entrepreneurs and professionals from all backgrounds that wish to learn about and apply principles and strategies to achieve higher levels of innovation.

### **TECHCOMM 5016SY Entrepreneurship and Innovation**

3 units - semester 1

This course aims to provide students with an understanding of the nature of enterprise and entrepreneurship and furthers the understanding of the role of innovation and technology and their efficient management to build and maintain a competitive edge in an entrepreneurial business. The course provides entrepreneurs and managers with a set of concepts and tools to improve the competitiveness of their venture or organisation. The course is relevant to entrepreneurs and professionals from all backgrounds that wish to learn about and apply principles and strategies to achieve higher levels of innovation.

### **TECHCOMM 5018 Opportunity Assessment**

3 units - semester 1

Intensive - check ECIC website

Available for Non-Award Study

This course is aimed at anyone who needs to assess possible business opportunities including possible project management opportunities that are mainly, but not exclusively, based on an innovative technological concept.

Rapid screening techniques are introduced, which will address the underlying business concept, the base technology, benefits to customers, potential markets, financial feasibility, risk and benefits to the organisation and the next steps to be taken. Opportunity screening protocols will be treated in depth and a comprehensive venture - screening guide will be developed during the course. The course will also provide an introduction to the business planning process for a new enterprise.

### **TECHCOMM 5018SY Opportunity Assessment**

3 units - semester 1

This course is aimed at anyone who needs to assess possible business opportunities including possible project management opportunities that are mainly, but not exclusively, based on an innovative technological concept.

Rapid screening techniques are introduced, which will address the underlying business concept, the base technology, benefits to customers, potential markets, financial feasibility, risk and benefits to the organisation and the next steps to be taken. Opportunity screening protocols will be treated in depth and a comprehensive venture - screening guide will be developed during the course. The course will also provide an introduction to the business planning process for a new enterprise.

### **TECHCOMM 5021 Applied Project Management 1**

3 units - semester 1 or 2

Intensive - check ECIC website

Available for Non-Award Study

Assessment: Assignments, individual & group

Introduces the context, rationale, strategy and tactics of project management from the perspectives of key stakeholders. Project phases are identified and examined. The importance of project planning and control is emphasised. Various models of project management are covered including the Project Management Body of Knowledge, PRINCE 2 and IPMA, as are the internationally recognised areas of knowledge, the iterative processes and the core skills required by successful project managers. Participants will be expected to relate the application of PMBOK directly to projects from their experience and as a course assignment will be able to apply what they have learnt to an actual work place project.

### **TECHCOMM 5021SY Applied Project Management 1**

3 units - semester 1 or 2

Introduces the context, rationale, strategy and tactics of project management from the perspectives of key stakeholders. Project phases are identified and examined. The importance of project planning and control is emphasised. Various models of project management are covered including the Project Management Body of Knowledge, PRINCE 2 and IPMA, as are the internationally recognised areas of knowledge, the iterative processes and the core skills required by successful project managers. Participants will be expected to relate the application of PMBOK directly to projects from their experience and as a course assignment will be able to apply what they have learnt to an actual work place project.

### **TECHCOMM 5022A/B ASY/BSY Project Management Project (9 unit)**

9 units - full year

Seminars

Assessment: Assignments

Identification of a project topic and developing the objectives of this. Understanding of business and project objectives and articulation of these into the project requirements. Structuring the project proposal and creating a work breakdown structure of the focuses required to achieve the objectives. Understanding of the research and project process for developing a business plan or achieving project goals. Development of the project structure and plan to demonstrate how scope, time, cost, quality, risk, human resources, communication and procurement, achieves project objectives. Documentation of these into a project process. Monitoring the achievement of the project plan and reporting on this in an appropriate report. The difference between this course and the 3, 6 and 12 unit Project is the scope and detail of the investigation.

### **TECHCOMM 5023A/B ASY/BSY Project Management Project (6 units)**

6 units - full year

Seminars

Assessment: Assignment

Identification of a project topic and developing the objectives of this. Understanding of business and project objectives and articulation of these into the project requirements. Structuring the project proposal and creating a work breakdown structure of the focuses required to achieve the objectives. Understanding of the research and project process for developing a business plan or achieving project goals. Development of the project structure and plan to demonstrate how scope, time, cost, quality, risk, human resources, communication and procurement, achieves project objectives. Documentation of these into a project process. Monitoring the achievement of the project plan and reporting on this in an appropriate report. The difference between this course and the 3, 9 and 12 unit project is the scope and detail of the investigation.

Students can choose to research an individual issue, develop a plan for starting a business, developing an entrepreneurial idea or develop a project plan.

### **TECHCOMM 5024/5024 SY Project Management Project (3 units)**

3 units - semester 1 or 2

Seminars

Assessment: Assignments

Identification of a project topic and developing the objectives of this. Understanding of business and project objectives and articulation of these into the project requirements. Structuring the project proposal and creating a work breakdown structure of the focuses required to achieve the objectives. Understanding of

the research and project process for developing a business plan or achieving project goals. Development of the project structure and plan to demonstrate how scope, time, cost, quality, risk, human resources, communication and procurement, achieves project objectives. Documentation of these into a project process. Monitoring the achievement of the project plan and reporting on this in an appropriate report. The difference between this course and 6, 9 and 12 unit Project is the scope and detail of the investigation.

Students can choose to research an individual issue, develop a plan for starting a business, developing an entrepreneurial idea or develop a project plan.

### **TECHCOMM 5026/5026SY Applied Project Management 2**

3 units - semester 1 or 2

intensive - check ECIC website

Available for Non-Award Study

Prerequisite: TECHCOMM 5021

Assessment: Assignments, individual & group

This is the capstone course in the Master of Project Management and focuses on the use of project management by corporations to achieve corporate goals. Topics covered include identification of corporate strategy, managing by process, scenarios and systems engineering principles, engineering architecture, process redesign, project directors skills, capability maturity, project, portfolio and program management and the role of values in a project producing organization. A major assignment based on the application of these areas to an organisation, is used.

### **TECHCOMM 5027 Business and Project Creation**

3 units - semester 1

Intensive - check ECIC website

Available for Non-Award Study

Assessment: Assignments, individual & group

This course examines the innovation and entrepreneurial skills required to identify and develop business and project opportunities in a technology context. These include understanding the importance of innovation and entrepreneurship to economies, industry and competitive analysis, role of foresight, innovation and entrepreneurship processes, competitive analysis and business and project strategy, establishing feasibility and organising finance, legal and governance issues of establishing a business and finally developing the business. The objectives are to build understanding and skills in participants to equip them to achieve actual business and project creation.

### **TECHCOMM 5028A/B Project in Entrepreneurship**

9 units - full year

Seminars

Prerequisite: TECHCOMM 5028A

Corequisite: TECHCOMM 5016, TECHCOMM 5018

Assessment: Assignment

The Masters Entrepreneurship Project offers scope for candidates to pursue their own business related research interest in three broadly defined areas, namely; the new enterprise creation process, the strategic management of innovation relevant to established or growth oriented SMEs and other organisations, a more theoretical project to allow a candidate to pursue study into a specific topic or issue relevant to entrepreneurship and innovation. A candidate will complete the proposed topic submitted to the Coordinator for approval in Part 1.

The project will therefore allow a candidate to pursue research into an area or topic related to entrepreneurship. Previous candidates have, for example, used the Project as a vehicle for undertaking business research that leads to a report documenting the means by which an established organisation may improve its performance should it implement strategies designed to raise the level of innovation through entrepreneurial management.

### **TECHCOMM 5029 Project in Entrepreneurship (6 units)**

6 units - semester 2

Seminars

Corequisite: TECHCOMM 5016TB, TECHCOMM 5018TB

Assessment: Assignment

The Masters Entrepreneurship Project offers scope for candidates to pursue their own business related research interest in three broadly defined areas, namely; the new enterprise creation process, the strategic management of innovation relevant to established or growth oriented SMEs and other organisations, a more theoretical project to allow a candidate to pursue study into a specific topic or issue relevant to entrepreneurship and innovation. A candidate will present their proposed topic to the Coordinator for approval prior to commencement of the work.

The project will therefore allow a candidate to pursue research into an area or topic related to entrepreneurship. Previous candidates have used the Project as a vehicle for undertaking business research that leads to a report documenting the means by which an established organisation may improve its performance should it implement strategies designed to raise the level of innovation through entrepreneurial management.

### **TECHCOMM 5030 Project in Entrepreneurship (3 units)**

3 units - Not offered in 2009

Seminars

Corequisite: TECHCOMM 5016TB, TECHCOMM 5018TB

Assessment: Assignment

The Masters Entrepreneurship Project offers scope for candidates to pursue their own business related research interest in three broadly defined areas, namely; the new enterprise creation process, the strategic management of innovation relevant to established or growth oriented SMEs and other organisations, a more theoretical project to allow a candidate to pursue study into a specific topic or issue relevant to entrepreneurship and innovation. A candidate

will present their proposed topic to the Coordinator for approval prior to commencement of the work.

The project will therefore allow a candidate to pursue research into an area or topic related to entrepreneurship. Previous candidates have used the Project as a vehicle for undertaking business research that leads to a report documenting the means by which an established organisation may improve its performance should it implement strategies designed to raise the level of innovation through entrepreneurial management.

### **TECHCOMM 5031/5031SY Project Management Project (6 units)**

6 units - semester 1 or 2

Seminars

Assessment: Assignment

Identification of a project topic and developing the objectives of this. Understanding of business and project objectives and articulation of these into the project requirements. Structuring the project proposal and creating a work breakdown structure of the focuses required to achieve the objectives. Understanding of the research and project process for developing a business plan or achieving project goals. Development of the project structure and plan to demonstrate how scope, time, cost, quality, risk, human resources, communication and procurement, achieve project objectives. Documentation of these into a project process. Monitoring the achievement of the project plan and reporting on this in an appropriate report. The difference between this course and 3, 9 and 12 unit Projects is the scope and detail of the investigation.

### **TECHCOMM 7006A/B Masters Project (Australia)**

12 units - full year

Seminars

Assessment: Assignment

This project provides participants with the opportunity to gain the knowledge and innovation skills to cope with the formidable economic, social, and political changes associated with creating value from knowledge in an age of global information and digital knowledge. The focus is on the transfer of research, knowledge, and technology from the laboratory to the market.

The project commences with coverage of the commercialisation process, concentrating on getting ideas, innovations, or discoveries into the marketplace in the form of products or services, or into the value chain at any step, to increase the competitive advantage of the enterprise. This phase is designed to provide an overview of the technology commercialisation process, with special emphasis on the sub processes of technology assessment. Participants are engaged in technology assessment projects that link the activities of research and development, product and process design, technology transfer and marketing, new venture financing, technology entrepreneurship and intrapreneurship, protection of intellectual property, and management.

Upon completion of the in depth opportunity and feasibility analysis, the focus moves to recognising venture opportunities, developing ideas for ventures into venture plans, assessing venture ideas and models, improving venture plans, and communicating venture plans to stakeholders to obtain resources to proceed to the next stage of commercialisation of a technology. Special emphasis is placed on the role of the entrepreneurial team as a major success factor in developing the new venture. The difference between this course and 3, 6 and 9 unit Project is the scope and details of the investigation.

### **TECHCOMM 7009 Applied Project Management Project (12 units)**

12 units - semester 1 or 2

Intensive - check ECIC website

Assessment: Assignments

The purpose of this course is to guide participants through a research and project management process, taking a multi-disciplinary approach to do so. The topics are aimed at providing participants with the structure, research methodology, and information about the knowledge and skills involved in designing managing and undertaking a project.

Identification of a project topic and developing the objectives of this. Understanding of business and project objectives and articulation of these into the project requirements. Structuring the project proposal and creating a work breakdown structure of the focuses required to achieve the objectives. Understanding of the research and project process for developing a business plan or achieving project goals. Development of the project structure and plan to demonstrate how scope, time, cost, quality, risk, human resources, communication and procurement, achieves project objectives. Documentation of these into a project process. Monitoring the achievement of the project plan and reporting on this in an appropriate report. The difference between this course and 6, 9 and 12 unit Project is the scope and detail of the investigation.

Students can choose to research an individual issue, develop a plan for starting a business developing an entrepreneurial idea, or develop a project plan.

### **TECHCOMM 7010A/B ASY/BSY Applied Project Management Project**

12 units - full year

The purpose of this course is to guide participants through a research and project management process, taking a multi-disciplinary approach to do so. The topics are aimed at providing participants with the structure, research methodology, and information about the knowledge and skills involved in designing managing and undertaking a project.

Identification of a project topic and developing the objectives of this. Understanding of business and project objectives and articulation of these into the

project requirements. Structuring the project proposal and creating a work breakdown structure of the focuses required to achieve the objectives. Understanding of the research and project process for developing a business plan or achieving project goals. Development of the project structure and plan to demonstrate how scope, time, cost, quality, risk, human resources, communication and procurement, achieves project objectives. Documentation of these into a project process. Monitoring the achievement of the project plan and reporting on this in an appropriate report. The difference between this course and 6, 9 and 12 unit Project is the scope and detail of the investigation.

Students can choose to research an individual issue, develop a plan for starting a business developing an entrepreneurial idea, or develop a project plan.

### **TECHCOMM 7011/7011SY Project Management for Professional Services**

3 units - semester 2

28 hours lectures/tutorials

Available for Non-Award Study

Prerequisite: TECHCOMM 5021

Assessment: Assignments

The use of project management for New regulations imposed such as compliance, superannuation, environmental, etc: Improve the effectiveness and efficiency and competitive strength; Development of new products and services; Response to government compliance issues. Benefits of project management: Achievement of corporate goals; Reduction of enterprise risks; Best use of your own experts. Integration of new software from external providers. Governance issues: Roles and responsibilities; Delegations. Achieving the benefits of integration of new software from suppliers; Providers of other specialist software tools such as PeopleSoft and many others. Team operation: Combining external professionals with internal experts; Creating progress review structures; Handling the politics of change management. Use of a simplified project management process (compared to PMBOK).

### **TECHCOMM 7012/7012SY Business & Contract Legal Studies**

3 units - semester 1 or 2

28 hours

Available for Non-Award Study

Prerequisite: TECHCOMM 5021

Incompatible: Cannot present with TECHCOMM 5009

Assessment: Assignments

Description of the common law process, theoretical basis of contracts; Contract formation including the requirements for intention on the part of the contracting parties, agreement, formalities and consideration, contractual capacity, consent and legality.

Operation of contracts including rules for interpretation of written documents; Discharge of contracts by performance; express agreement, frustration, election

after breach; Remedies for breach of contract; Rules for assessment of the measure of damages; Variation of existing contracts including a discussion of the principles of promissory estoppel; Introduction to the law of torts; Historical development of the law relating to negligence; Extension of the law of negligence into situations involving negligent misstatement; The evolution of the concept of proximity; Standard of care, remoteness of damage and defences to actions for negligence; Actions for negligence based on a duty of care arising out of a contract. The statutory regulation of transactions for the provision of goods and services; Dispute resolution including commercial arbitration, mediation and expert determination; Discussion of how the matters discussed in the course impact on the procurement procedures; Arbitration with the course participants assuming the roles of litigants, counsel, witnesses and the arbitrator; Implications for contract administration.

### **TECHCOMM 7014 Social Venture Funding**

3 units - semester 1

Available for Non-Award Study

Assessment: Participation, presentation, reports

This course is designed to assist social entrepreneurs to understand the processes of raising capital for social ventures. The course focuses on both private and public fund raising and allows the student to be better prepared to make their venture more attractive to investors or funding bodies. Students look at the instruments and strategies for structuring organisations and deals and how these can be measures in a social context as well as the financial context.

### **TECHCOMM 7015 Financial Mgt in Not-for-Profit Organisations**

3 units - Not offered in 2009

Available for Non-Award Study

Assessment: Participation, presentation, reports

To provide students with the understanding of financial managements in the non profit sector. To demonstrate the use of market based instruments in the measurement of social and environmental impacts of organisations.

### **TECHCOMM 7016 Indigenous Entrepreneurship**

3 units - Not offered in 2009

Available for Non-Award Study

Assessment: Participation & presentation 10%, reports 90%

Indigenous entrepreneurship is a course designed to provide students with an understanding of the unique ways in which indigenous cultures adapt to their economic environment. Intellectual property issues and prior claims for indigenous peoples are often overlooked and case studies are used to show how many communities have overcome this to improve their economic standing. Other case studies look at how indigenous communities have used their unique cultural and environmental knowledge to start entrepreneurial enterprises.

### **TECHCOMM 7017 Leadership in Not-For-Profit Organisations**

3 units - semester 1 or 2

13 hours lectures, 26 hours tutorials

Available for Non-Award Study

Assessment: Participation, presentation, reports

Case studies from nonprofits in social services, health care, education, and arts & culture are used to explore a variety of issues including strategic change, growth and replication, governance, alliances, capacity building, and leadership. While this course draws heavily on the core concepts from organizational behavior theory, we will also deal explicitly with ways organizations need to be adapted to deal with the unique aspects of the non-profit sector.

### **TECHCOMM 7018 Environmental Entrepreneurship**

3 units - semester 1 or 2

13 hours lectures, 26 hours tutorials

Available for Non-Award Study

Assessment: Participation, presentation, reports

Students learn how for-profit and not-for-profit organizations are using market forces and instruments to developing innovative products and processes to balance environmental outcomes with economic outcomes. This course also considers cases dealing with land, water, and wildlife resources and the balance of natural resources management with competing economic and social uses.

### **TECHCOMM 7019/7019SY Social Entrepreneurship**

3 units - semester 2

Available for Non-Award Study

Assessment: Participation, presentation, reports

This course provides students with a knowledge and understanding of the principles of social entrepreneurship. Case studies are presented and students then apply this knowledge to an individual topic that forms the basis of their reports. This course is relevant to entrepreneurs and intrapreneurs that have a social, environmental or non-profit focus.

### **TECHCOMM 7020 Technology Project Management 2**

3 units - semester 2

28 hours lectures and tutorials

Available for Non-Award Study

Prerequisite: TECHCOMM 5021, TECHCOMM 5010

Assessment: Assignments

A second level course in the project management of software and IT projects, building on Technology Project Management 1. Suitable for IT professionals and others dealing with defence, IT&T, manufacturing and many other software dominated projects. Content includes Professional ethics of software project managers; Managing software teams; Software licensing and IT procurement management; Managing innovation in software and the effect on the software principal including

scope creep; Other legal issues including software and hacking piracy; Software project delivery systems; Configuration, change and release management; Software Capability Maturity Model; Transition of new processes and solutions to existing organization including Benefits realization, Realising the benefits of the new system, Ensuring the organisation does not slip back to the old processes, Use of coaches to ensure new procedures are used; Project Governance structures; Reporting processes; Project Communications and Integrating software development with project management.

### **TECHCOMM 7022 Creativity and Innovation**

3 units - semester 1

Available for Non-Award Study

Assessment: Assignments and participation

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 7023/7023SY Carbon Impact and Strategy**

3 units - semester 1

The objectives of this course are to establish a degree of competence in students in: Setting organisation objectives for carbon management, creating a program/project team to achieve organisation objectives, measuring organisation's carbon footprint, assessing asset value protection and enhancement opportunities, developing a reduction/abatement plan, developing an offset plan, developing and implementing the carbon management program and monitor achievement and, considering, monitoring, reporting and verification of the above.

The content will include creating organisational objectives for carbon management, and using project management planning and control systems to achieve the plan, measuring the organisation's carbon footprint and assessing asset value protection and enhancement opportunities. Content will also include methods for assessing asset value protection and enhancement opportunities and the carbon footprint, and developing and reduction/abatement plan. Finally, methods of assessing value protection and enhancement opportunities are addressed.

### **TECHCOMM 7024/7024SY Complex Project Management 1**

3 units - semester 1 or 2

The objectives of this course are to define and manage projects which undergo substantial changes in requirements, and consequently have high levels of emergence, high internal and external system

complexity and usually have large life cycle costs. Such projects require the project team to learn during the life of the project in order to clarify what is required and consequently how to deliver it. Examples of such projects include complex defence projects which include multiple powerful stakeholders such as multi-nationals, the United Nations and the World Bank; achieving climate change objectives is a further example.

The course recognises the skills of Systems Engineering however it contrasts these with the Soft System Methods required to define the developing project. These include rich pictures, root definition and CATWOE, Total Systems Intervention, decision trees & influence diagrams, cognitive mapping or mind maps, Strategic Assumption Surface Testing, scenario planning, Repertory Grid, Delphi methods, Total Systems Intervention, Critical Systems Thinking, and Real options. Once scope is clear, the traditional project management methods can be used.

### **TECHCOMM 7025/7025SY Introduction to Climate Change**

3 units - semester 1

The objectives of this course are to enable students to understand the broad concepts of climate change and to begin to gain competence in managing climate change issues.

Content includes the Earth's carbon cycle and the natural variation of carbon dioxide in the atmosphere, the scientific basis of Climate Change and the predictions of what the physical effects of Climate Change will be, including the cause of CO<sub>2</sub> emissions, where they occur in the supply/distribution chain, the broader impacts of Climate Change for key industries, including corporate reputation, market forces, regulation and physical assets and an introduction to carbon trading and tax schemes.

### **TECHCOMM 7026/7026SY Innovation & Corporate Venturing**

3 units - semester 2

32 hrs intensive, 12 hrs online tutorials

Available for Non-Award Study

Assessment: Assignments

This course examines the innovation and entrepreneurial skills required to identify and develop business and project opportunities within the corporate context. These include understanding the fundamentals of innovation and entrepreneurship and how these relate to and influence corporate strategy. The corporation, in turn, influences economies, industry and competitive environments. The course considers the role of foresight and how different innovation and entrepreneurship processes can be facilitated within a corporate setting. Skills are developed in competitive analysis, new venture and project strategy, feasibility analysis and accessing finance, legal and other necessary support within the confines of competing business interests. The objectives are to build participant understanding and skills equipping them to create innovative new ventures and projects that add significant new value for the corporation, industry and community.

## **TECHCOMM 7027/7027SY** **Foresight & Social Change**

3 units - semester 1

32 hrs intensive, 12 hrs online tutorial

Assessment: Assignments

This course aims to broaden student awareness of futures, how they are created, how they relate to individuals and societies and how innovation impacts upon them. The course particularly, but not exclusively, references emerging technologies and develops student capabilities with a range of foresight techniques. It encourages exploration of different social perspectives grounded in contrasting world views and engages with the question of change within our societies. The course is designed to increase the mindfulness of those involved in creating new ventures with respect to how science, technology and innovation generally influence and create social change.

## **TECHCOMM 7028/7028SY** **Managing Strategy & Growth**

3 units - semester 2

32 hrs intensive, 12 hrs online tutorial

Available for Non-Award Study

Assessment: Assignments

In this course we study the relationship between new venture growth and strategy. It provides students with an overview of the dynamics involved in growing a new venture including the many aspects that must be considered to ensure the business operates smoothly and meets the needs of its customers while keeping a focus on strategy. Intellectual Capital and the Resource Based View are the two main frameworks utilised to examine the dynamic relationships. The course adds to the information gained in other courses such as Opportunity Assessment, Marketing and Financial Management and presents students with an opportunity to acquire the knowledge and skills needed to complete another aspect of a comprehensive business plan.

## **TECHCOMM 7029/7029SY** **Systems Engineering 2**

3 units - semester 2

25 hrs lectures, 9 hrs tutorials, 10 hrs web-based development

Available for Non-Award Study

Prerequisite: TECHCOMM 5013

Assessment: Assignments

The objectives of Systems Engineering 2 are to understand the difference between complicated and complex projects, build skills to manage and integrate requirements into design, including managing testing, and develop skills in integrated logistic support. The content includes managing requirements, detailed design and development, design for functional capability, reliability, maintainability, human factors, production, supportability, cost benefit and design for social acceptability. Systems integration and testing and system modification, issues of governance, change management, and configuration management, soft systems aspects of leadership, motivation and quality are covered.

## **TECHCOMM 7030/7030SY** **Logistics & Supply Chain Management**

3 units - semester 1

25 hrs lectures, 9 hrs tutorials, 10 hrs web-based development

Available for Non-Award Study

Assessment: Assignments

The objectives are to develop understanding of maintenance and support planning, ensure Integrated Logistic Support concerns are effectively considered in the system, and address acquisition and development cycle, have competence in ILS techniques and understand the implications of an extended supply chain and design systems to address these.

The content includes the role of the various components of logistics including systems and concurrent engineering, integrated logistic support analysis, including reliability and maintainability, measures of logistic effectiveness, including reliability, maintainability factors, supply support factors, test and support equipment factors.

The role of logistics in the design and development phases, reliability modeling, FMEA and FMECA, fault tree analysis, reliability centred maintenance, and configuration management are addressed. Human factors in ILS, integration of the supply chain, flow of information, materials, services, manpower and money across the supply chain, coordinating technology across tiered suppliers, creation of trust, enterprise architecture in the supply chain, waste and minimising transaction costs are addressed.

## **TECHCOMM 7031/SY** **Introduction to Mineral Processing**

3 units - semester 1

The objectives of this course include examining basic principles in extractive metallurgy and demonstrating the applicability of basic chemical engineering principles and concepts to the minerals industry. The content includes mineralogy, liberation, crushing and grinding, particle sizing, classification, flotation, surface chemistry, flotation and gravity separation techniques, dewatering and management of tailings, including environmental considerations. hydrometallurgy, leaching, and solution purification, biometallurgy and pyrometallurgy.

## **TECHCOMM 7032/SY** **Mine Financing & Valuation**

3 units - semester 1 or 2

34 hrs lectures and tutorials, 10 hrs web based development

Available for Non-Award Study

Prerequisite: TECHCOMM 5021

Assessment: Assignments

The objectives of the course focus on developing skills in establishment of value in developing mines and the provision of finance. Topics include the role of mining in an economy, estimates of ore reserves and optimal methods of extraction. The course then focuses on the finance and accounting principles including use

of financial statements, financial analysis, analysis of financial statements, analysis of cash flows, payback period and IRR; risk and sensitivity analysis, and equity and debt financing.

### **TECHCOMM 7033/7033SY** **Ongoing Carbon Management**

3 units - semester 1 or 2

34 hrs lectures and tutorials, 10 hrs web based development

Available for Non-Award Study

Prerequisite: TECHCOMM 5021

Assessment: Assignments

The objectives of this course include understanding establishing a carbon management program into the business. Content includes implementing a monitoring, reporting and verification program for carbon accounting systems and processes, assessing the carbon impact on new investment decisions such as asset acquisition, transformation and disposal, identifying and leverage new carbon opportunities, decarbonise the supply chain where possible, and engaging with external power holders on the need to act appropriately.

### **TECHCOMM 7034/7034SY** **Mine Management and Safety**

3 units - semester 2

Syllabus details to be advised.

### **TECHCOMM 7035/7035SY** **Socio-Environmental Aspects of Mining (MAPM)**

3 units - semester 2

Prerequisite: TECHCOMM 5021, TECHCOMM 5014

Syllabus details to be advised.

## **English**

### **ENGL 5005** **Writing Process**

6 units - semester 1

Restriction: Postgraduate Coursework Creative Writing students

Check with School for Non-Award Study

Assessment: Written assignments both specified & chosen of students' best semester writing (variety of genres & word-lengths) - total 7500 words

A practical introduction to creative writing process including pre-writing, drafting, revision, and editing. Through participation in a workshop centred on focused peer and teacher evaluation, students will have the opportunity to read, write, and analyse specific techniques within a variety of creative genres including poetry, fiction, and non-fiction.

### **ENGL 5006** **Thinking Aloud**

6 units - semester 1

Restriction: Postgraduate Coursework Creative Writing students

Check with School for Non-Award Study

Assessment: 2 essays of 3000 words each.

Students meet weekly with English discipline writers and academics to discuss current literary research and writing practice. Through reading and responding to critical articles concerned with contemporary issues in writing, editing and publishing, students will develop their own critical, research and writing skills in preparation for advanced study in literary research or creative writing.

### **ENGL 5007** **Genre Practice**

6 units - semester 2

Restriction: Postgraduate Coursework Creative Writing students

Check with School for Non-Award Study

Prerequisite: ENGL 5005, ENGL 5006 or equiv

Assessment: 7,500 words including 3,000 word proposal for MA project plus 4,500 words or equivalent in chosen genre.

Through a focused peer and teacher evaluation process, this workshop concentrates on developing and crafting creative work in the student's chosen genre of poetry, fiction or non-fiction. Students submit drafts to be read prior to workshops and read and write written responses to the work of others as well. The workshop centres on discussion of moving work from conceptual first draft to a developed and crafted second draft. A variety of techniques specific to each genre will be explored. Students will also develop a proposal for the MA thesis (or a focused writing project) that will be assessed by the course teacher.

### **ENGL 5008** **Genre Study**

6 units - semester 2

Restriction: Postgraduate Coursework Creative Writing students

Check with School for Non-Award Study

Prerequisite: ENGL 5005, ENGL 5006 or equiv

Assessment: 7,500 words including assigned responses to semester readings (3,000 words, and final 4,500 word or equivalent essay/creative work focused on particular concept related to student's chosen genre.

This course focuses on the nexus between reading and writing. Students will closely examine material excerpted from a wide range of Australian and international literary works as a point of departure for discussion of contemporary writing practices. Assigned reading is designed to cover a range of writing styles, genres and subjects. The course is intended to extend students' knowledge of current industry expectations.



## ENGL 5009

### Editing

6 units - semester 1

Restriction: Postgraduate Coursework Creative Writing students

Check with School for Non-Award Study

Assessment: Three short editing exercises (3,000 words total or equivalent), longer editing exercise (2000 words or equivalent), structural report and re-edit (3000 words or equivalent)

This course focuses on the editing of literary and popular fiction and non-fiction manuscripts. The emphasis is on editing book-length manuscripts but the skills can be applied to editing any written texts for print media, including magazines and newspapers, or for digital media. The course will also provide a practical understanding of the process of editing written texts, particularly with regard to grammar and style, so that students may edit their own work and have an understanding of the process when their own work is edited.

## ENGL 5010

### Publishing

6 units - semester 2

Restriction: Postgraduate Coursework Creative Writing students

Check with School for Non-Award Study

Assessment: Publishing Business Plan (3,500 words or equivalent), case study (4,500 words).

This course provides an overview of the Australian publishing industry within the international context and explores key aspects of publishing such as editing and print production, marketing and business planning. There will be a focus on the impact of digital technologies in editing, production, marketing and distribution/delivery processes. The emphasis is on trade publication, especially of literary and popular fiction and non-fiction, but the skills can be applied to other forms of publishing including magazines and newspapers, and technical, educational and corporate publishing.

## ENGL 5017

### Food Writing

12 units - semester 1

Restriction: Grad. Cert. Food Writing or Grad. Dip. Creative Writing students only

Available for Non-Award Study

Assessment: Written assignments, both free-choice & set topics, for different purposes & readers - varying lengths (250, 500, 1000, 2000 words), to total of 11,000 words

This course is designed to introduce students to the varieties, contexts and issues of food writing and, through discussions, workshops and writing exercises, to develop food writing skills in a range of styles and approaches. It is based on one week's intensive face-to-face study on campus at the University, with workshops and presentations by both University staff and specialist lecturers, and one semester (12 weeks) online study. Students will read and examine a variety of examples of different styles and genres of food writing. Examples of contemporary journalism will also be chosen for critical study.

## ENGL 5500

### Portfolio Supervision and Workshop

12 units - semester 1 or 2

Restriction: Master of Arts (Creative Writing) students

Check with School for Non-Award Study

Prerequisite: ENGL 5005, ENGL 5006, ENGL 5007, ENGL 5008

Assessment: Portfolio of 18,000 words in selected genre including synopsis of planned larger work (word-length for poetry may vary)

The final semester of the MA, this 2-hour weekly seminar concentrates on close reading and response to writing that will be included in the final portfolio for examination. While writers may be working on larger projects, the final portfolio is not necessarily a complete work. However, it should be a strong, representative example of the writer's best writing. Students are expected to produce a chapter, a story, a group of poems etc every 2-3 weeks as well as to read and comment on the manuscripts of other writers in the workshop. Students are required to meet individually with the course coordinator to discuss their projects at various stages throughout the semester.

## ENGL 5500A/B

### Portfolio Development and Supervision

24 units - full year

Restriction: M.A.(Creative Writing) students

Prerequisite: ENGL 5500A

Portfolio Development and Supervision takes into account both the writing and research required to complete the final portfolio and allows students to meet individually with the course coordinator to discuss their projects at various stages throughout the year. While writers may be working on larger projects, the final portfolio is not necessarily a complete work. However, it should be a strong, representative example of the writer's best writing for the year. The MA portfolio should be 30-40,000 words.

# Environmental Biology

## ENV BIOL 7016

### Climate Change: Past, Present and Future

3 units - semester 2

1 hour lecture, 1 hour tutorial per week

Restriction: Master of Sustainability

Available for Non-Award Study

Assessment: Tutorial assignments, major assignment.

The Earth has existed for billions of years with a constantly changing climate. The course will study the evolution of the earth system over geological time and the causes and consequences of ancient climate change events. The impact of these changes on the biota has been extraordinary. The role of climate in the production of flora and fauna of our island continent over the last 80 million years, the period during which the Australian biota developed into its current form, and will be examined.

During industrial times, there has been almost a degree Celsius of global warming. This human-caused change in

climate is now affecting the lives of millions of people and thousands of species. It is increasingly seen as one of the most urgent challenges facing the global community, with its consequences expected to rapidly worsen during this century. An overview of the impacts, implications and required actions for mitigation will be presented.

### **ENV BIOL 7017** **Issues in Sustainable Environments**

3 units - semester 2

1 x 4 hour seminar per week

Restriction: GCert / GDip / Master of Sustainability

Assessment: Essay, 2x Substantial reports

This course comprises a series of seminars by invited speakers that covers the latest issues as they relate to the three majors areas of natural resources and their sustainable use: conservation and wildlife ecology, land and water management and deep earth resources.

## **French**

### **FREN 5103WT** **Technical French (Oenology)**

3 units - semester 2

5 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 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. Postgraduate students are required to undertake additional reading comprehension exercises based upon their research interests.

## **Gastronomy**

### **GAST 5300/5300EX** **Principles of Gastronomy**

6 units - semester 1

5 contact hours per week

Restriction: postgraduate Gastronomy students

Check with School for Non-Award Study

This course will provide a comprehensive survey of the broad domain of gastronomy, emphasising its interdisciplinary character and sociocultural relevance. The following areas will be covered: definitions and interpretations of gastronomy; the historical development

of gastronomy, food and medicine; the development and significance of cooking; the significance and roles of alcoholic and non-alcoholic beverages; the history of meals and mealtimes; the history and significance of the restaurant; the development of gastronomic writing.

### **GAST 5301/5301EX** **Food & Drink in Contemporary Western Society**

6 units - semester 2

Online

Restriction: postgraduate Gastronomy students

Check with School for Non-Award Study

Prerequisite: GAST 5300 or 5300EX

This course will encourage students to apply gastronomic principles in a contemporary context. The following areas will be covered: the significance of gastronomy in the contemporary world; changes in diet and eating habits; the influences of technology and dietary advice on food choice; the significance of developments in food production, processing and retailing; the evolution of cuisines and of restaurants; globalisation and its effects on production and consumption; changes in restaurants and eating out; responses to food-related anxiety; obesity; regionalism and gastronomic tourism.

### **GAST 5302/EX** **Gastronomy and Communication**

6 units - semester 1

Online

Restriction: postgraduate Gastronomy students

Check with School for Non-Award Study

Prerequisite: GAST 5300 or 5300EX

This course will focus on the concept of food and drink as a means of communication, explore the use of food and drink in literature and visual media, and encourage students to express ideas opinions and evaluations relating to food and drink. The following areas will be covered: semiotics of food; meanings of food and drink in daily life; meanings of food and drink in ritual and tradition; researching food and drink through written sources and via the internet; recipe writing and editing; writing about food and drink; restaurant reviewing and criticism; food and drink in fiction, in art and in film; food and wine television.

### **GAST 5303/5303EX** **Gastronomic Tourism**

6 units - semester 2

Online

Restriction: postgraduate Gastronomy students

Check with School for Non-Award Study

Prerequisite: GAST 5300 or 5300EX

The course focuses on the role of food and drink in enhancing the experiences of travellers and tourists. It examines major themes in tourism literature and their relevance to the study of gastronomic tourism, and considers examples of best practice at destinations where food and wine enable tourists to explore aspects

of culture. It also examines the direct and indirect advantages and disadvantages to local and regional communities associated with the development of tourism and with gastronomic tourism initiatives in particular.

### **GAST 5304/5304EX** **Food & Wine Technology**

6 units - semester 2

Online

Restriction: postgraduate Gastronomy students

Check with School for Non-Award Study

Prerequisite: GAST 5300 or 5300EX

This course will provide an overview of traditional and current food and wine production and processing practices and techniques, together with methodologies and analytical tools for evaluating and communicating them. For on campus students, it may include some visits to appropriate sites, placing these technologies in their contemporary context. Online students will be offered a range of simple experiments to extend their understanding of certain topics.

### **GAST 5530/5530EX** **Dissertation in Gastronomy F/T**

12 units - semester 1 or 2

Online

Restriction: M.A.(Gastronomy) students

Prerequisite: coursework component at high credit (70%) standard

Assessment: Dissertation of 15000-18000 words on topic to be developed in consultation with Program Manager

Enrolment in the dissertation will commence with a two-week intensive induction program (Dissertation Preparation course).

### **GAST 5531A/B 5300EX** **Dissertation in Gastronomy P/T**

12 units - full year

Online

Restriction: M.A.(Gastronomy) students

Prerequisite: coursework component at high credit (70%) standard

Assessment: 15000-18000 word dissertation on topic to be developed in consultation with Program Manager

An enrolment in the dissertation will commence with a two-week intensive induction program (Dissertation Preparation course); the same course will be delivered to online students over two weeks

### **GAST 5532/ 5532EX** **Research Project in Gastronomy A**

6 units - semester 1 or 2

Online

Restriction: M.A.(Gastronomy) students

Prerequisite: coursework component at high credit (70%) standard

Assessment: Research project of 8000-10000 words (or equiv)

Project length will depend upon the nature of the project and will be in an area approved by the Program Manager. Research Project A should cover a different field from

that completed for Research Project B. Enrolment will commence with a two-week intensive induction program (Dissertation Preparation course).

### **GAST 5533/5533EX** **Research Project in Gastronomy B**

6 units - semester 1 or 2

Online

Restriction: M.A.(Gastronomy) students

Prerequisite: coursework component at high credit (70%) standard

Assessment: Research project of 8000-10000 words (or equiv)

Project length will depend upon the nature of the project and will be in an area approved by the Program Manager. Research Project B should cover a different field from that completed for Research Project A. Enrolment will commence with a two-week intensive induction program (Dissertation Preparation course).

## **General Practice**

### **GEN PRAC 7101HO** **The Nature of Grief**

2 units - semester 1 or 2

Restriction: Grief & Palliative Care Counselling students, other students with approval of Program Adviser

Assessment: To be advised

This course provides an experimental, theoretical and evidence-based framework for best practice care and intervention relevant to counsellors. The nature and effects of grief, processes of recovery from bereavement and the factors that may affect its course will be discussed. The effects of context, gender, age and culture on the grieving process will also be explored. There will be scope for self-reflective learning to examine personal experiences and attitudes to loss and how these may influence approaches to clients and patients. Emphasis will be placed on the clinical applications of the principles learned in the course.

### **GEN PRAC 7102HO** **Loss and Grief**

2 units - semester 1 or 2

Restriction: Grief & Palliative Care Couns. students, other students with approval of Program Adviser

Assessment: To be advised

This course presents an overview of the paradigm of loss and explores the benefits of expressing loss as narrative. A range of diverse circumstances in which loss and grief may be experienced, such as the breakdown of relationship, illness and disability, adoption, trauma and migration, will be presented, and students will examine relevant issues, supportive intervention and appropriate referral. Students will be encouraged to reflect on their own work experience and practice and will have the opportunity to explore a specific loss of their own choice.

### **GEN PRAC 7103HO** **Issues in Death and Dying**

2 units - semester 1 or 2

Restriction: Grief & Palliative Care Couns. students, other students with approval of Program Adviser

Assessment: To be advised

This course comprises three main topics: legal issues, ethical issues and exploring death and dying. Legal issues will cover the role of the Law in death and dying, with specific reference to the acts associated with death and the subsequent legal process. Ethics will address basic ethical theory and the application thereof. Practical ethical problems will be presented. Exploring death and dying will present multidisciplinary views on terminal illness and dying, including physiological and psychological aspects of death and dying, the philosophy and delivery of palliative care, and living with a terminal illness.

### **GEN PRAC 7104HO** **Supervised Field Education**

2 units - semester 1 or 2

Restriction: Grief & Palliative Care Couns. students, other students with approval of Program Adviser

Assessment: To be advised

This course provides an introduction to professional issues relating to counselling, and a short placement within an organisation. Students will have the opportunity to apply their knowledge and skills either in the context of the student's own workplace (if suitable) or of an agency, institution or service in which counselling of clients or patients takes place. Students will be invited to engage actively in a process of collaborative reflection on and analysis of counselling cases and issues, in order to consolidate their learning and to achieve personal insight and development within a professional perspective.

### **GEN PRAC 7105HO** **Grief Counselling I**

2 units - semester 1 or 2

Restriction: Grief & Palliative Care Couns. students, other students with approval of Program Adviser

Assessment: To be advised

This course provides an introduction to the practice of grief counselling. Evidence for effectiveness in therapeutic practice is explored and the importance of the self-aware counsellor in successful therapeutic interaction is stressed. The practical skills and theory necessary for creating and maintaining counselling relationships, and for the effective exploration of problems in the context of grief counselling, are presented. This includes an understanding of the counselling process, and the application of skills within the context of a counsellor/client relationship.

Students will be encouraged to integrate the principles and skills learned with their own personal and professional experience and to apply them to the requirements of their specific work practice.

### **GEN PRAC 7106HO** **Grief Counselling II**

2 units - semester 1 or 2

2.5 hour seminar per week

Restriction: Grief & Palliative Care Counselling students, other students with approval of Program Adviser

Assessment: To be advised

This course seeks to provide a broad understanding of the major theories and approaches to psychotherapy and counselling since the 20th century. Historically, some of the most well known and important approaches have included Psychodynamic, Cognitive-Behavioural and Humanistic. This course briefly covers the above-mentioned and a range of other approaches and seeks to address current trends in counselling and psychotherapy where practitioners typically approach their work with great diversity, flexibility and creativity. Applications of each approach to grief counselling are examined.

### **GEN PRAC 7107HO** **Grief Counselling III**

2 units - semester 1 or 2

Students are required to attend 1 seminar per week of 2.5 hours duration

Restriction: Grief & Palliative Care Counselling students, other students with approval of Program Adviser

Assessment: To be advised

Students will examine the role of the counsellor in counselling, and explore specific factors that influence the nature and functioning of the therapeutic alliance. Grief counselling will be considered in relation to a number of specific situations and from multiple view points (e.g. counselling bereaved families). Students are encouraged to integrate the principles and skills learned with their own personal and professional experience and to apply them to the requirements of their specific work practice.

### **GEN PRAC 7201HO** **Grief and Spirituality**

2 units - semester 1 or 2

Restriction: Grief & Palliative Care Couns. students, other students with approval of Program Adviser

Assessment: To be advised

This course recognises the importance of spiritual issues in counselling and therapeutic work with those experiencing grief. The distinction between religion and spirituality is drawn and the emergence of spiritual questions during challenging developmental or situational transition times is examined. The particular contributions of Christian and Buddhist and transpersonal frameworks to the task of caring for others are reviewed, and the importance of rituals and symbols in grief work is included.

Students are encouraged to reflect on their own experience of the connections between grief and spirituality and to consider their attitudes to spiritual issues in counselling. Emphasis will be placed on understanding and identification of appropriate incorporation of spiritual dimensions in clinical practice.

## **GEN PRAC 7202HO**

### **Grief Studies**

2 units - semester 1 or 2

Restriction: Grief & Palliative Care Couns. students, other students with approval of Program Adviser

Assessment: To be advised

This course provides an opportunity for the exploration of specialised areas of grief. Topics selected may include, for example, the facilitation of grief and palliative care support groups, men's issues in grief and counselling, cultural differences in grief. For information regarding the topic for 2009, please contact the Program Director, Department of General Practice.

## **GEN PRAC 7205HO**

### **Advanced Grief Counselling IA**

1 unit - semester 1 or 2

Restriction: Grief & Palliative Care Couns. students, other students with approval of Program Adviser

Assessment: To be advised

This course provides an opportunity for students to receive supervision of their current and ongoing work with clients. Students are required to provide evidence of their ability to deal appropriately with the needs of clients or patients and to demonstrate adequate insight and knowledge of the counselling process in reflections on their practice. Case histories will be presented and discussed.

## **GEN PRAC 7206HO**

### **Advanced Grief Counselling II**

3 units - semester 1 or 2

Restriction: Grief & Palliative Care Couns. students, other students with approval of Program Adviser

Assessment: To be advised

Students will be introduced to one practical therapeutic approach (for example cognitive behavioural therapy) with a specific focus on the philosophy, practice and techniques and its application to grief and loss. The course tailors these techniques specifically to a range of client and patient populations who are suffering or experiencing grief. Students will be given the opportunity to experience various techniques and exercises drawn from the teachings, practitioners and tradition. The Practicum provides an opportunity for students to apply and demonstrate the learned principles and techniques to clients and patients under the guidance of a supervisor.

Students are encouraged to formulate a personal and integrated counselling approach to grief-related work, and to reflect on the appropriate application and usage of different counseling models in their specific work contexts, professional skills and personal style.

## **GEN PRAC 7207HO**

### **Advanced Grief Counselling III**

3 units - semester 1 or 2

Restriction: Grief & Palliative Care Couns. students, other students with approval of Program Adviser

Assessment: To be advised

Students will be introduced to one practical therapeutic approach (eg, the transpersonal) with a specific focus on the philosophy, practice and techniques and its application to grief and loss. The course tailors these techniques specifically to a range of client and patient populations who are suffering or experiencing grief. Students will be given the opportunity to experience various techniques and exercises drawn from the teachings, practitioners and tradition.

The Practicum provides an opportunity for students to apply and demonstrate the learned principles and techniques to clients and patients under the guidance of a supervisor.

Students are encouraged to formulate a personal and integrated counselling approach to grief-related work, and to reflect on the appropriate application and usage of different counselling models in their specific work contexts, professional skills and personal style.

## **GEN PRAC 7209HO**

### **Research Design and Methodology**

2 units - semester 1 or 2

Restriction: Grief & Palliative Care Couns. students, other students with approval of Program Adviser

Assessment: To be advised

This course is designed to provide students with a broad introduction to research process and methods. The processes covered are selected with particular reference to issues pertaining to researching questions within the health care system. Content includes an introduction to health research, formulating a research question, searching the literature, ethical issues, research design, quantitative and qualitative methodology and the writing of a research proposal. At the conclusion of the course participants should be in the position of being able to choose, with justification, from a variety of contemporary methods and apply one method to a research question of their choice.

## **GEN PRAC 7210HO**

### **Advanced Grief Counselling IB**

1 unit - semester 1 or 2

Restriction: Grief & Palliative Care Couns. students, other students with approval of Program Adviser

Assessment: To be advised

This course provides an opportunity for students to receive supervision of their current and ongoing work with clients. Students are required to provide evidence of their ability to deal appropriately with the needs of clients or patients and to demonstrate adequate insight and knowledge of the counselling process in reflections on their practice. Case histories will be presented and discussed.

## **GEN PRAC 7304HO** **MGPCC Dissertation (full-time)**

12 units - semester 1 or 2

Restriction: Grief & Palliative Care Counselling students, other students with approval of Program Adviser

Prerequisite: completion of MGPCC coursework

Assessment: To be advised

The dissertation is the final requirement of the MGPCC and should therefore reflect what the student has learned from the core and elective coursework on the Graduate Certificate and Diploma programs. Unless exempted by the Board of Studies\* the dissertation will take the form of a paper suitable for submission to an appropriate peer reviewed journal. The content of this paper must reflect the research topic. The successful completion of this paper fulfils the requirements for a dissertation.

\* Exemptions are rare but may be necessary in some circumstances to avoid significant disadvantage to a particular student.

## **GEN PRAC 7404AHO/BHO** **MGPCC Dissertation (Part-time)**

12 units - full year

Prerequisite: completion of MGPCC coursework

Assessment: Dissertation

The dissertation is the final requirement of the MGPCC and should therefore reflect what the student has learned from the core and elective course work on the Graduate Certificate and Diploma programs. Unless exempted by the Board of Studies\* the dissertation will take the form of a paper suitable for submission to an appropriate peer reviewed journal. The content of this paper must reflect the research topic. The successful completion of this paper fulfils the requirements for a dissertation. This course needs to be undertaken with GEN PRAC 7404AHO to fulfil the requirements of the dissertation.

\* Exemptions are rare but may be necessary in some circumstances to avoid significant disadvantage to a particular student.

# **Geographical & Environmental Studies**

## **GEST 5001** **Research Design and Methods**

6 units - semester 1

3 hours per week

Restriction: PG Environmental Policy & Management students

Available for Non-Award Study

Assessment: Literature review 20%, research proposal 30%, research presentation 15%, essay 20%, seminar participation & summaries 15% (exercises on research methods & techniques 70%, assignment on research design 30%)

This course will provide students with a strong foundation in the conceptualisation and operationalisation of research, how to design a research project and 'hands-on' skills in the utilisation of different research methods.

Students will be exposed to a wide range of research methods and will learn key principles of research design. Topics to be covered in detail include sampling, surveying, interviewing, case study analysis and analysing and presenting data. Intellectual and methodological debates will be discussed in order to assist students to develop informed opinions and a critical appreciation for other's research. The imperative for ethical research practice will be presented. Students will be equipped with the knowledge and ability to undertake methodologically sound, original research projects and will develop a set of transferable workplace skills.

## **GEST 5002** **Environmental Planning and Governance**

6 units - semester 1

3 hours per week

Restriction: PG Environmental Policy and Management students, Master of Planning and Master of Planning (Urban Design) students

Available for Non-Award Study

Assessment: Take home exam 40%, research essay 40%, tutorial presentation & participation 20%

This course will track the journey of environmental planning in Australia and examine the influence of the evolving conceptualisation of governance on environmental planning theories and practices. The course will begin by introducing students to the rational planning model which has long-dominated planning strategies in Australia. It will then shift focus and explore how new theories of ecology, the interrelationship between values and knowledge, a restructured public sphere and the emergence of new actors have challenged traditional approaches to planning. The course will critically examine contemporary thinking about environmental planning including decentralised environmental management, the role of NGOs, community based approaches and regional planning. Examples of nationally prominent cases of environmental management which highlight the linkages between environmental planning and good governance will be presented.

## **GEST 5004** **Environmental Economics and Policy**

6 units - not offered in 2009

3 hours per week

Restriction: PG Environmental Policy and Management students, Master of Planning and Master of Planning (Urban Design) students

Available for Non-Award Study

Assessment: Essays 40%, seminar/workshop exercises 20%, exam 40%

This course is an introduction to environmental economics. It examines contemporary environmental problems including air and water pollution from the economics point of view and seeks appropriate policies for environmentally sustainable economic development. The prime objective of the course is to familiarise students with applications of mainstream economics to environmental management. The course introduces some basic economic concepts including marginal analysis, opportunity costs, externalities and optimal pollution level. The course next investigates non-market benefits of

environmental goods and services, multiple-use conflicts and economic tradeoffs between alternative resource uses. The course introduces various multi-objective decision-support methods.

### **GEST 5005 Community Engagement**

6 units - semester 2

3 hours per week

Restriction: PG Environmental Policy and Management students, Master of Planning and Master of Planning (Urban Design) students

Available for Non-Award Study

Assessment: Engagement plan & evaluation framework 40%, case study report 25%, seminar presentation 20%; seminar participation & summaries 15%

In recent years, community engagement has become a central dimension of governance as well as policy development and service delivery. However efforts to directly involve citizens in policy processes have been bedevilled by crude understandings of the issues involved, and by poor selection of techniques for engaging citizens. This course will provide a critical interrogation of the central conceptual issues as well as an examination of how to design a program of effective community engagement. This course begins by asking: Why involve citizens in planning and policymaking? This leads to an examination of the politics of planning, conceptualisations of "community" and, to the tension between local and professional knowledge in policy making. This course will also analyse different types of citizen engagement and examine how to design a program of public participation for policy making. Approaches to evaluating community engagement programs will also be a component of the course.

### **GEST 5006 People and Environment in the Asia-Pacific Region**

6 units - semester 2

3 hours per week

Restriction: PG Environmental Policy and Management students, Master of Planning and Master of Planning (Urban Design) students

Available for Non-Award Study

Assessment: Essay 30%, project report 30%, seminar presentation 20%, seminar participation & summaries 20%

This course will introduce students to socio-economic and environmental issues in the Asia-Pacific region. This region, which characterised by extraordinary cultural and economic diversity as well as important environmental resources, is also marked by significant economic, demographic and political change. This course is concerned with understanding the processes of human and environmental change in the region, its major environmental problems and issues, as well as with differing approaches to environmental management. Topics covered each semester will reflect the expertise of teaching staff and may include natural resource management issues, environmental law and resource governance, sustainable regional development, population and health, urbanisation, poverty and tourism. Specific case study countries include China, Indonesia, South Korea, Japan, Philippines and several Pacific Island countries.

### **GEST 5010 Research Methods**

3 units - semester 1

Restriction: Master of Planning & Master of Planning (Urban Design)

Check with School for Non-Award Study

Quota may apply

Incompatible: GEST 5001 Research Design & Methods

Assessment: Literature Review 30%, Research Proposal 30%, research proposal presentation 20%, seminar participation & summaries 20%

The aim of this course is to develop students' knowledge and understanding of the role and conduct of quantitative and qualitative research methods in planning [and urban design]. Intellectual and methodological debates will be discussed in order to assist students to develop informed opinions and a critical appreciation for other's research. The imperative for ethical research practice will be presented. The course equips students with the skills to review and conduct methodologically sound research as a part of their professional work. Students develop the skills to recognise and reflect on the strengths and limitations of different research methodologies, understand the links between theory and practice, critically assess research, and address ethical and practical issues. The course takes a step-by-step approach to the design and implementation of quantitative and qualitative research including topics such as: case study and precedent studies; conducting surveys, interviews, and focus groups; participant observation; textual and media analysis; managing data (including computer assisted); analysing data; and writing and presenting findings. Students will be equipped with the knowledge and ability to undertake, original research projects and develop a set of transferable workplace skills

### **GEST 5500 Dissertation Environmental Policy & Management F/T**

12 units - semester 1 or 2

Restriction: Master of Environmental Policy & Management students

Dissertation on an Environmental Policy and Management topic approved by the Convenor of the Environmental Policy and Management program.

### **GEST 5501A/B Dissertation Environmental Policy & Management**

12 units - full year

Restriction: Master of Environmental Policy & Management students

Dissertation on an Environmental Policy and Management topic approved by the Convenor of the Environmental Policy and Management program.

### **GEST 5502 Environmental Professional Internship**

12 units - semester 2

Restriction: Master of Environmental Policy & Management students

Check with School for Non-Award Study

Assessment: Seminar presentation 20%, 7000-9,000 word final report 80%

The purpose of the course is to allow students to gain first hand experience of the workings of an environmental government or non-government (community-based) organisation, while completing an agreed research project. During the course of their internship, students are expected to complete a short academic introduction to the internship and then to spend time working on a research task under the joint supervision of a supervisor from within the participating organisation and the academic coordinator. By the end of the semester, students write a report giving an account of the research project undertaken during the internship.

### **GEST 5505 Planning Dissertation**

6 units - semester 2

Restriction: Master of Planning and Master of Planning (Urban Design) students

Check with School for Non-Award Study

Quota may apply

Dissertation on Planning topic approved by the Convenor of the Planning program.

## **Geology & Geophysics**

### **GEOLOGY 7002 Mineral Exploration for Project Managers**

3 units - semester 1

4 full days of contact in short course mode

Assessment: Written assignments, take-home exam

This course is designed to provide a general background in mineral exploration techniques and outcomes to project managers. Areas covered by the course include an overview of geological, geophysical and geochemical exploration approaches used in defining target areas. Exploration and resource development of mine sites will be covered. The emphasis will not be on technical and scientific details, but instead on the strengths and weaknesses of different exploration methods, and the sequences of approaches that are used to develop a mine. The course will be taught on the assumption of no background technical knowledge being brought to the class, including any background in chemistry, physics and geology.

## **Horticulture**

### **HORTICUL 7000WT Production Horticulture**

3 units - Even years only

1 x 2 hour Lecture, 1 x 4 hour Practical per week

Assessment: Exam, assignments

This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students.

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, pistachio, and the tropical fruit, pineapple, banana, mango, and avocado. Vegetables include tomato, potato, brassicas, cucurbits, lettuce and the onion group.

### **HORTICUL 7001WT Horticulture Systems**

3 units - semester 1

1 x 2 hour Lecture, 1 x 4 hour Practical per week

Assessment: Mid-semester exam, final exam, assignments

This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students.

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 7052WT Olive Production and Marketing**

3 units - winter semester

5 x 4 Hour Lectures, 5 x 4 hour Practicals for 2 weeks in Mid Year Break

Assessment: Exams, practical and tour reports, major assignments, group oral presentations

This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students.

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.

## **Information Systems**

### **ECOMMRCE 7004 Internet Commerce (M)**

3 units - semester 1

3 hour seminar per week

Assumed Knowledge: fundamentals of World Wide Web, information systems development & relational database management systems

Assessment: assignments, exam as determined at first class

The course examines how businesses use the World Wide Web to interact with customers. Topics: alternative business models, current Australian practices, commercial



benefits and costs, design construction and management of a website, integration with a database, HTML and JavaScript languages, server side scripting, project management, payment systems, security, international considerations, evaluation and maintenance of the website as part of a marketing plan.

## International Studies

### INST 5000

#### Approaches and Issues in International Studies

6 units - semester 1

Restriction: postgraduate International Studies students

Check with School for Non-Award Study

Assessment: essay, seminar presentation - total 8000 words

This course looks at contemporary theories of International Relations and then asks students to try and develop an understanding of how these theoretical issues relate to 'real world' events. The course overviews the key debates in IR theory scholarship - including an emphasis on both 'positivist' and 'post-positivist' approaches to the subject. The course will focus on particular theories and ask students to relate these theoretical paradigms to current issues in global politics.

### INST 5001

#### International Politics in the Post Cold War World

6 units - semester 2

Restriction: postgraduate International Studies students

Check with School for Non-Award Study

Assessment: essay, seminar presentation to total 8000 words

The notions of leadership and power have been important sources of debate since the end of the Cold War, and most notably in the Asia-Pacific region. Questions of succession, the role of the state in generating economic growth and social stability and the possibility of divining an 'Asian model' that other states could emulate have all figured prominently in shaping stimulating perspectives on the conduct of politics and nation-building. This course examines the foundations of power and the nature of Asian leadership in the region, focussing on the ideologies, forms of political organisation and the rationales for rule.

### INST 5002

#### International Studies Topic A

6 units - semester 1 or 2

Restriction: postgraduate International Studies students

Check with School for Non-Award Study

Assessment: essay, seminar presentation - total 8000 words

A selection of options will be available in each semester and students should consult the School of History and Politics website for further information: [www.hss.adelaide.edu.au/historypolitics/](http://www.hss.adelaide.edu.au/historypolitics/)

### INST 5003

#### International Studies Topic B

6 units - semester 1 or 2

Restriction: postgraduate International Studies students

Check with School for Non-Award Study

Assessment: essay, seminar presentation - total 8000 words

A selection of options will be available in each semester and students should consult the School of History and Politics website for further information: [www.hss.adelaide.edu.au/historypolitics/](http://www.hss.adelaide.edu.au/historypolitics/)

### INST 5004

#### Regionalism and Multilateralism

6 units - semester 1

Restriction: postgraduate International Studies students

Check with School for Non-Award Study

Assessment: essay, seminar presentation - total 8000 words

This course considers some of the theoretical debates with regard to Australia's relations with the Asia Pacific region. It examines concepts such as bilateralism, regionalism and multilateralism and connects them to some of the key regional institutions like APEC, ASEAN, ARF and ASEM. The subject also takes into account Australia's bilateral relationships with some of its principal partners in the Asia Pacific. Focus is placed on Japan, China and the nations of Southeast Asia, although some countries from South Asia and the South Pacific are also considered. It is designed to provide students with some of the essential conceptual and analytical tools for understanding Australia's regional context. It also provides detailed knowledge of regional economic, political and diplomatic affairs and the role Australia plays in regional affairs.

### INST 5005

#### Strategic Cultures and Unconventional Conflict

6 units - semester 1

Restriction: postgraduate International Studies students

Check with School for Non-Award Study

Assessment: essay, seminar presentation - total 8000 words

The world system has been redefining itself in novel ways since the end of the Cold War. Terrorist attacks on New York, Washington D.C., Pennsylvania, Barcelona and London, as well as the conflicts in Afghanistan, Iraq, and Lebanon, have demonstrated the impact of these deadlier forms of power and fear that can have an impact on developed and developing countries alike. No longer is national security seen as a strictly military issue, as many other non-military factors are emerging in discussions on how to protect the political sovereignty of individual states. Governments find it increasingly difficult to counter the work of people-smugglers, narcotics traffickers and terrorist groups. These organisations are armed with large amounts of untraceable cash, easily accessible commercial technologies, and a new degree of ruthlessness (as demonstrated by the work of the modern terrorist). Ideology has, moreover, provided a further complication in this complex matrix: the willingness to die for a cause, a feature of modern political violence that

can negate the ability of national governments to secure their international boundaries and the safety of their citizens within those borders. The diffuse and globalised nature of many of these transnational threats makes their operations difficult to decisively eliminate. Even relatively small or weak states and international actors, using conventional military means in unconventional ways, coupled with misinformation strategies that permeate modern communications, can significantly constrain the actions of larger, better-equipped military opponents. This course sets out to examine how strategic cultures and unconventional conflict are beginning to undermine the traditional discourse on global security and the instrumentalities of international power.

**INST 5006**  
**Intelligence and Security after the Cold War**

6 units - semester 1 or 2

Restriction: postgraduate International Studies students

Check with School for Non-Award Study

Assessment: essay, seminar presentation - total 8000 words

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 course 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 interest 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.

**INST 5007EX**  
**Themes in Intelligence History**

6 units - semester 1 or 2

Restriction: postgraduate International Studies students

Check with School for Non-Award Study

Assessment: Essay 1 (2,000 words) 20%, Essay 2 (6,000 words) 80%

Espionage and the responses to it, have developed as key elements in the decision-making process in international politics during the 20th century. Among the topics explored are Australian Counter-Intelligence in the 20th century; the contribution of Intelligence to the Allied victory in World War II; the external activities of Soviet Intelligence organisations (the KGB and its forerunners, the Main Intelligence Directorate [GRU]); the operation

and impact of surveillance in Soviet-style societies; German and Japanese espionage before 1945; the CIA and "counter-revolution" since 1950; political surveillance in Western societies since 1945; the changing methods and technologies of Intelligence gathering; the "failure" of Western Intelligence in Iran and Iraq; controlling Intelligence services in democratic societies.

**INST 5008**  
**The Politics of War: Old and New**

6 units - semester 2

Restriction: postgraduate International Studies students

Check with School for Non-Award Study

Assessment: essay, seminar presentation - total 8000 words

This course examines the politics of organized violence. It opens with an exploration of the nature of war and the manner in which it has been treated in international political thought. The first half of the course deals with the different modes of war - republican, imperial and democratic - that may be located in the history of the West from ancient Greece to the present day. This part concludes with a survey of contemporary strategic thought. The second half examines the changing relationship between women and war and a range of 'non-Western' modes of war.

**INST 5009**  
**International Security**

6 units - semester 1

Restriction: postgraduate International Studies students

Check with School for Non-Award Study

Assessment: essay, seminar presentation - total 8000 words

This course explores the changes and continuity in international security, in particular in view of the recent changes that have occurred in international relations. Events such as the end of the Cold War, the terrorist attacks on the United States on 11 September 2001 have not only transformed the architecture of international relations, they also prompted new thinking on international security issues. The course begins with the theoretical frameworks, both traditional and critical, of international security which will equip the students with enabling frameworks for understanding the changes and continuity in international security. Following it, this course examines what has changed and what hasn't in the international security realm after the end of the Cold War. It examines new security issues and the new thinking in security studies in a comprehensive manner. Finally, this course extrapolates the emerging structure of international security as we make our journey deep into the twenty-first century.

**INST 5010**  
**Perspectives on Nuclear Proliferation**

6 units - not offered in 2009

Restriction: postgraduate International Studies students

Check with School for Non-Award Study

Assessment: essay, seminar presentation & exercises - total 8000 words

This course explores the politics of nuclear weapons proliferation and non-proliferation, and analyses the contrasting state decisions to build nuclear weapons or to forgo the nuclear option. It explains, based on empirical cases, why some states build nuclear arsenals, while many others, despite some having the capability (e.g. Japan, Germany, Sweden etc.), decide not to make them. It also explains why some states - South Africa, Ukraine, Belarus, and Kazakhstan have voluntarily given up their nuclear arsenals. Furthermore, this course assesses issues such as whether we have entered into a second atomic era, whether the spread of nuclear weapons is controllable, how efficacious the global non-proliferation regime is, and whether we will be able to achieve the long cherished goal of nuclear disarmament in the future. It winds up with an extrapolation of the emerging global nuclear order in the twenty-first century.

**INST 5011/5011EX**  
**Intelligence Analysis: Theory and Practice**

6 units - semester 1

Restriction: postgraduate International Studies students

Check with School for Non-Award Study

Assessment: essay, seminar presentation & exercises to a total of 8000 words

This course is aimed at introducing students to the practical application of intelligence analysis techniques as well as providing grounding in the theory of intelligence analysis. Intelligence is moving beyond the traditional boundaries of government, as numerous private sector groups look to analysts to identify opportunities and threats in a global environment. Analysis is not a new concept, but the detailed examination of the field, particularly in the late 20th and early 21st centuries, has led to increased understanding of decision-making processes, often in confused information environments. The course combines social sciences, psychology and decision-making theories to understand approaches to analysis. This course will provide participants with the opportunity to apply basic intelligence analysis theory in practical ways.

**INST 5012**  
**Greater China**

6 units - semester 2

Restriction: postgraduate International Studies students

Check with School for Non-Award Study

Assessment: 6000-8000 essay

The course will adopt the comparative politics approach to the study of territories believed to constitute 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.

**INST 5013**  
**The Politics of Emotion**

6 units - semester 1

Restriction: postgraduate International Studies students

Check with School for Non-Award Study

Assessment: 6000-8000 essay

This course will analyse the ways in which emotion is used in political discourse, using examples from Australian and comparative politics (e.g. UK, U.S., Malaysia, South Africa) and issues in international relations. Emotions to be covered range from the role of fear to the role of empathy and compassion.

Issues the course will cover include: the role of emotion in political campaign advertising; the role of emotions in causing the electorate to both engage with political issues and to consider changing political views and allegiances; the role of emotion in bonding citizens, parties, elected officials and the nation; the role of emotion in mobilising social movements. It will also examine the important political role of fear, resentment and anxiety around "strangers" as well as calls for government policy regimes that encourage "hope". It will cover the role of "tough love" in justifying welfare cuts; the policing/recognition of "love" in debates over same-sex relationships and critiques of welfare policies for focusing excessively on material needs but failing to provide for the emotional needs of citizens in areas ranging from aged residential care to mental illness, child abuse and hospitals. The role of emotion in war, particularly the "War on Terror" will also be examined, including constructions of fear and hate as well as the emphasis on encouraging nationalist feelings of loyalty and belonging in order to facilitate integration and reduce threats of domestic terrorism.

**INST 5500**  
**Dissertation in International Studies F/T**

12 units - semester 1 or 2

Restriction: M.A.(International Studies) students

Check with School for Non-Award Study

Assessment: 15000 word dissertation

Dissertation on an International Studies topic approved by the Convenor of International Studies.

## **INST 5501A/B** **Dissertation in International Studies P/T**

12 units - full year

Restriction: M.A.(International Studies) students

Check with School for Non-Award Study

Assessment: 15000 word dissertation

Dissertation on an International Studies topic approved by the Convenor of International Studies.

# **Landscape Architecture**

## **LARCH 7016** **Landscape Architecture Elective Studio A (M)**

6 units - semester 1

Up to 9 hours lectures/tutorials/workshops including average 6 hours studio - contact hours vary from week to week

Restriction: M.L.Arch, M.Arch.(Cswk) students only

Incompatible: LARCH 7009

Assessment: assignments, projects

This course explores the theory and practice of landscape architectural design. It explores strategies for design development and ideation. The course will also examine related issues around communication and landscape representation.

## **LARCH 7017** **Landscape Architecture Studio (M)**

6 units - semester 1

Up to 9 hours lectures/tutorials/workshops including average 6 hours studio - contact hours vary from week to week

Restriction: M.L.Arch. students only

Incompatible: LARCH 7010

Assessment: assignments, projects

Students will develop a brief, develop design options that respond to the brief, the site and urban ecology environmental objectives, predict and develop construction specifications and drawings. The analysis and documentation will be carried out using digital media.

## **LARCH 7018** **Landscape Architecture Elective Studio B (M)**

6 units - semester 2

Up to 9 hours lectures/tutorials/workshops including average 6 hours studio - contact hours vary from week to week

Restriction: M.L.Arch. and M.Arch. (Cswk) students only

Incompatible: LARCH 7011

Assessment: assignments, projects

This course explores the theory and practice of landscape architectural design. It explores strategies for design development and ideation. The course will also examine related issues around communication and landscape representation.

## **LARCH 7020** **Landscape Architecture Project (M)**

9 units - semester 2

Up to 20 hours a week studio work with specialist lectures irregularly spaced

Restriction: M.L.Arch. students only

Prerequisite: LARCH 7019

Corequisite: LARCH 7023B

Incompatible: LARCH 7004A/B

Assessment: final project

This course comprises an individual culminating design, planning and/or research project that principally addresses either nature and/or culture in urban and/or rural settings and which permits the exposition of the major aspects of the program and a student's particular interests. The project will be of a moderate to high complexity, and often drawn from a limited selection or from an identified region. Responses should demonstrate competency in most phases of landscape architecture thought and practice, including a final presentation that should show a thorough integration of all major aspects of the academic program.

## **LARCH 7023A/B** **Landscape Architecture Masters Dissertation**

6 units - full year

2 hour tutorial/seminar weekly

Restriction: M.L.Arch. students only

Prerequisite: At least 18 units of Level 1 courses in M.L.Arch

Assessment: seminar paper/presentation & final essay, report or exhibition articulating & communicating outcomes of dissertation investigation

The Masters Dissertation is conducted over both semesters of the final year of the Masters program. It aims to develop the students' critical design thinking, expand their theoretical and historical understanding, and heighten their awareness of the social, ethical, and environmental responsibilities they carry as future architects. It involves focused research, presentations, and discussions of selected topics conducted through a series of lectures and seminars. Assessment includes verbal and visual presentations as well as an illustrated essay.

## **LARCH 7024A** **Landscape Architecture Masters Seminar A (M)**

3 units - semester 1

Up to 3 hours lectures, seminars per week\*

Restriction: M.L.Arch students only

Corequisite : LARCH 7024B or ARCH 7028A

Assessment: Research & writing exercises 60%, seminar paper/presentation 40%

This courses aims to develop the students' critical design thinking, expand their theoretical and historical understanding, and heighten their awareness of the social, ethical, and environmental responsibilities they carry as future landscape architects. It involves focused research, presentations, and discussions of selected topics conducted through a series of lectures and seminars. Reading and research material will be mainly of scholarly

nature. Assessment will include a student demonstrating written, oral, and visual presentations skills. For students enrolled in the course(s) ARCH 7028A/B Research Thesis A/B the seminar presentation will comprise a thesis proposal.

The course will include an introductory component to research method and scholarly writing.

\*This course may be taught in intensive mode over 6 weeks.

### **LARCH 7024B Landscape Architecture Masters Seminar B (M)**

3 units - semester 1

Up to 3 hours seminars, tutorials per week\*

Restriction : MLArch students only

Corequisite : LARCH 7024A

Assessment: Approx 2,500-3,000 word major illustrated essay, articulating & communicating outcomes of research investigations in fields of history & theory of architecture, landscape architecture & urban design (first draft 30%, final submission 70%)

This courses aims to further develop the students' critical design thinking, expand their theoretical and historical understanding, and heighten their awareness of the social, ethical, and environmental responsibilities they carry as future landscape architects. It involves focused research on a selected topic conducted through a series of lectures and seminars. Reading and research material will be mainly of scholarly nature. Assessment will include a student demonstrating written and visual presentations skills.

\*This course may be taught in intensive mode over 6 weeks.

### **LARCH 7025 Design & Contemporary Theories in Landscape Architecture (M)**

3 units - semester 2

Up to 3 hours lecture and studio per week

Restriction : MLARCH students only

Corequisite : LARCH 7027

Assessment: Participation in lecture activities 10%, workshop exercises 30%, 2,500-3,000-word essay or digital equivalent 60%

This course introduces students to the current theoretical developments and their design implications in the field of architecture, landscape architecture, and urban design. It involves a series of lectures and workshops by academics and design professionals, presenting the critical issues shaping the debates on and the production of today's constructed environment. This course is structured around a series of public lectures.

The lecture and workshop series will be supported by a course reader to form the focus of the workshops. Reading and research material will be mainly of professional nature. Students can choose to theorise their own design in textual or digital format or write a critical theoretical essay on contemporary design issues.

### **LARCH 7027 Landscape Architecture Project (M)**

6 units - semester 2

Up to 9 hours lectures and studios per week

Restriction : MLARCH students only

Prerequisite : PLANNING 7031

Corequisite: LARCH 7025

Assessment: Preliminary design presentations 20%, final project 80%

This course comprises an individual culminating design, planning and/or research project that principally addresses either nature and/or culture in urban and/or rural settings and which permits the exposition of the major aspects of the program and a student's particular interests. The project will be of a moderate to high complexity, and often drawn from a limited selection or from an identified region. Responses should demonstrate competency in most phases of landscape architecture thought and practice, including a final presentation that should show a thorough integration of all major aspects of the academic program.

## **Law**

### **LAW 5009 Alternative Dispute Resolution**

4 units - semester 1

36 hours

Subject to minimum number of 8 enrolments to form a class

Prerequisite: LAW 2002, LAW 3002

Corequisite: LAW 2002, LAW 3002

Assessment: 3000 word paper 70%, submission of group report, project, presentation

The course will include a detailed examination of the philosophy and practice of ADR methods in the context of an adversarial legal system. It will assume basic knowledge of the range of ADR options available, and will develop understanding of the operation and implications of various ADR theories and practices in our legal system. It will evaluate the experience in Australia and other common law countries of the development and incorporation of ADR options in dispute resolution, the civil, administrative, family and criminal contexts. By examining both philosophy and practice, the course aims to develop ability to critically assess the legal, social and other issues intrinsically linked to the values imputed to ADR, and to understand the implications of the operation of those theories in an adversarial legal context. The course will include the following: (i) the nature of disputes, and the psychological, political, cultural, economic and social issues that affect dispute resolution; (ii) The relevance and social acceptance of ADR as a credible alternative to litigation; (iii) theory, features and values of various forms of ADR; (iv) Justice reform-the role of the courts in justice delivery-provision of courts annexed ADR, the "multi-doored" court and the value of judicial decision making; (v) power and control issue in dispute resolution; (vi) the role of mediators-ethical standards; (vii) legal rights and responsibilities flowing from ADR outcomes.

**LAW 5010**  
**Accreditation for Mediators**

2 units

Intensive course

Available for Non-Award Study

Quota will apply

Prerequisite: LAW 3010

Assessment: may include written feedback on performance as mediator, learning/evaluative journal, written exam, presentation/or a combination of these.

This workshop builds on theory explored in Alternative Dispute Resolution. Students will engage in simulated mediation exercises playing the role of parties and mediators. Students will have their performance as mediators formally assessed with written feedback. Associated sessions will include evaluation and critique of techniques in mediation and implications for justice access.

**LAW 7007**  
**Comparative Constitutional Law (PG)**

3 units - semester 1

24 hours

Restriction: MCL, LLM & MBL students

Check with School for Non-Award Study

Assessment: Likely to include participation, exam or 5000 word research paper or 3 x 1500-2000 word papers

This course will explore a number of the essential features of constitutional law of Western countries which are comparable to Australia and will compare them with the equivalent features of the constitutional law of one or more other jurisdictions (including Australia). In particular the subject will consider the method, technique and role of the judiciary in the interpretation of the other constitutions. Other aspects that will be investigated include: Court structure; the executive; the legislature; the protection of fundamental rights; and federalism.

**LAW 7009**  
**Mining and Energy Law**

3 units - semester 2

24 hours

Prerequisite: Principles of Australian Law, Contractual Relations (M.B.Law students only)

Assessment: To Be Advised

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, 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 regulation to address climate

change, including legislation to encourage renewable energy resources and to establish an emissions trading scheme in Australia. The regulation of uranium mining will also be covered.

**LAW 7024**  
**Comparative Law (PG)**

6 units - semester 1

48 hours - 4 lecture hours, supplemented by seminars

Restriction: MCL, LLM & MBL students

Available for Non-Award Study

Assessment: Likely to include Part A - multiple choice questionnaire, Part B - essay questions, seminar presentation, seminar participation, essay

This course will cover the following topics: comparative law as an academic discipline; the world's families of legal systems; comparative evaluation of the merits of differing legal solutions to social problems; legal history and comparative law; law understood as divine revelation and law as a human creation (exemplified by an analysis of the roots of European and North American law and a survey of the history and present day practice of Islamic law); the impact of the philosophy of the Enlightenment on European and North American law (the theory and practice of human rights and the codification movement in civil law and common law countries); codified and uncodified law, highlighting prominent features of civil law and common law systems, eg, the rule of precedent (common law), reliance on good faith (civil law) and differing standards of interpretation of statute law; the investigatory civil procedure (civil law) and the adversarial civil procedure (common law). Selected civil law judgments (translated into English) and common law judgments which have similar fact patterns will be compared.

**LAW 7025**  
**Dissertation (MCL)**

6 units - semester 1 or 2

Assessment: 12000 - 15000 word essay

Syllabus details to be advised.

**LAW 7034**  
**Anti-discrimination Law: Practice and Theory PG**

3 units - yes

24 hours

Restriction: M.Laws & M.Laws combined degree, M.Comp. Law, M.Bus.Law & M.Bus.Law combined degree

Check with School for Non-Award Study

Prerequisite: Principles of Australian Law, Contractual Relations (M.B.Law students only)

Assessment: Proposed- attendance & participation at seminars, 30 minute presentation in seminar & associated research paper, 4,000 word research essay

The course will consider the legislative and common law framework which regulates discrimination in Australia. It will assess the Commonwealth and South Australian anti-discrimination legislation in terms of their conceptual underpinnings, constitutional basis, legislative structure, procedures and remedies. In addition to introducing students to the current anti-discrimination regime in

Australia, the course will facilitate continued engagement with anti-discrimination legislation (necessary in this fast developing arena) through examination of the theoretical framework of anti-discrimination legislation and theories of equality and discrimination. In order to expand understanding of the operation and limitations of the Australian legislation, there will also be a comparative analysis of aspects of equality and anti-discrimination law in Europe and North America.

### **LAW 7038** **Law of Debtor and Creditor (PG)**

3 units - semester 1

24 hours

Available for Non-Award Study

Assumed Knowledge: Commercial and Corporate Law

Assessment: Likely to include 7,500-10,000 word essay, class participation

Debtor - creditor law governs the legal rights and obligations arising out of the debtor - creditor relationship. The course commences with a review of the distinction between secured and unsecured creditors where the nature of security interests, including guarantees, will be considered, together with the enforcement rights thereunder. Other creditor protective measures will be considered, including proprietary rights over a debtor's property arising through reservation of title clauses and the trust concept, as well as protection afforded to particular creditors under legislation eg under the Companies Act, revenue enactments. The next major component of the course relates to debt collection practices, credit reporting, and their regulation, with particular emphasis on out of court abusive collection processes and the protection of debtors, particularly consumer debtors, from such practices. In this context there will be scope to undertake comparison with initiatives implemented in overseas jurisdictions. Finally the course will review fundamental aspects of the personal and corporate insolvency processes where the debtor is insolvent. Again there will be scope for comparison with overseas jurisdictions in this regard.

### **LAW 7040** **International Environmental Law (PG)**

3 units - semester 1

24 hours

Available for Non-Award Study

Assessment: Likely to include 7,000 word essay, oral participation

After a brief introduction concerning the origin and the history of international environmental law the current system of law-making shall be the main focus of the course. Analysis of the relevant actors such as States and their representatives, governmental and non-governmental organisations, expert bodies and the national electorates. Analyze the various sources of environmental legislation, the treaty law constituting the main focus of attention. Instruments, such as the international regimes on ozone protection, climate change or biodiversity will be examined and compared to non-binding instruments, such as the Stockholm and the Rio Declaration or

Agenda 21. On the one hand the course will deal with the material contents and the effectiveness of each of these instruments. On the other hand, they shall serve to illustrate different regulatory approaches and techniques (such as the so-called framework-protocol-approach) that are typical of international environmental law-making.

Special emphasis shall be put on comparing the effectiveness and the modalities of treaty implementation in various countries against the background of cultural, economic, social and other differences. Finally, a typical negotiation scenario - such as the Conference of the Parties dealing with the Kyoto Protocol - shall be simulated. Students will be provided with the bargaining positions of individual actors (as far as these are available) in order to re-enact the actual negotiation process and to come up with possible solutions.

### **LAW 7042** **Technology, Law and Society (PG)**

3 units - semester 2

24 hours

Assessment: Participation, assignments/research paper and/or exam as determined at first seminar

This course will consider how the law impacts on technology - both by regulation and facilitation. The roles of statute, tort and contract will be considered, along with comparative and transnational approaches and extra-legal means of control of technology. These general issues will be considered in the setting of specific situations such as the following topics: regulating information and communication technologies; identification, privacy, data-mining and retention of information; e-risk management, trust and security technologies; digital evidence and e-discovery; e-forensics and expert evidence; virtual worlds and social networks; and digital divides.

### **LAW 7043** **Corporate Governance & Securities Regulation: International & Comparative Perspectives PG**

3 units - semester 1 or 2

24 hours

Available for Non-Award Study

Assumed Knowledge: Company Law

Assessment: To be advised

This course will examine and contrast from both a theoretical and practical perspective the regulatory approaches to insider trading and market manipulation, corporate governance structures (gatekeeper legal duties, responsibilities and liabilities), directors' duties in the takeover context, treatment of cross-border corporate control transactions, civil (and criminal) liability for misleading prospectuses and effectiveness of securities law enforcement mechanisms in Australia (ASIC) and in the United States (SEC). The emphasis will be on comparing Australia and the United States but not insignificant attention will also be given to EU and Japan/China. It will not be essential to have studied Australian securities regulation but a basic knowledge of company law would be assumed.

**LAW 7055**  
**Comparative Corporate Rescue Law (PG)**

3 units - semester 1 or 2

24 hours

Available for Non-Award Study

Assessment: Participation, assignments/research paper &/or exam as determined at first seminar

The aim of the course is to identify the role of insolvency law regimes in the global corporate environment, with particular emphasis on formal and informal rehabilitation processes for corporations experiencing financial difficulties. The course will cover the following topics as they relate to corporate rescue systems operating in major trading regions of the world: when is rehabilitation appropriate; access to the process; protection afforded to the company on entering into the process; formulating a rehabilitation plan; the role of an independent administrator in the process; the role of creditors, members, and company officers in the process; the role of the court; informal v formal rehabilitation processes.

**LAW 7056**  
**Competition Law: Comparative Perspectives (PG)**

3 units - semester 1 or 2

24 hours

Available for Non-Award Study

Assessment: Participation, assignments/research paper &/or exam as determined at first seminar

This course examines the policy objectives of competition law and the economic foundations of competition policy in the context of a comparative treatment between Australia, the United States and the European Union. The course considers the regulation of anti-competitive conduct such as price fixing, exclusive dealing and resale price maintenance. Comparative measures aimed at structuring a competitive market such as prohibitions on vertical and horizontal monopolisation will also be considered. The various roles of institutional bodies such as the ACCC, the US Federal Trade Commission and the European Commission will be examined. The operation of competition law in a global economy will also be a focus of the course. Topics covered will include: The extra-territorial reach of competition law; Efforts to co-ordinate international investigation through bilateral and multilateral treaty; Efforts to harmonise the enforcement of competition law through organisations such as the WTO and the OECD or an international competition agency.

**LAW 7057**  
**Corporate Governance (PG)**

3 units - semester 2

24 hours

Available for Non-Award Study

Assessment: Participation, assignments/research paper &/or exam as determined at first seminar

The collapse of Enron and WorldCom in the United States and the collapse of HIH in Australia were seen as failures of corporate governance, and consequently have led to substantial and onerous new corporate governance

requirements particularly in relation to audit committees. This course will examine the principles and practices that shape the current corporate governance debate. Students will examine: the relationship between corporate governance and corporate performance; the role, structure and composition of the board and other senior management company organs; the relationship between the board and management; the rights and responsibilities of shareholders including institutional shareholders; risk management practices; audit requirements; executive remuneration; corporate social responsibility.

**LAW 7059**  
**European Union Law (PG)**

3 units - winter semester

24 hours

Available for Non-Award Study

Assessment: Participation, assignments/research paper &/or exam as determined at first seminar

The European Union is one of Australia's major trading partners. European Union Law strongly impacts on the legal systems of its twenty-five Member States. It is important for Australian lawyers to understand how the legal system of the European Union operates in order to give advice on commercial transactions or other relations with the Union or any of its Member States. Furthermore, knowledge of EU law is today vital to comprehend the legal system of the United Kingdom.

The course examines the legal, administrative and political structure of the European Union. The basic treaties on which the European Union is founded and current issues such as demands for treaty reform and the EU's enlargement will be considered. Specific topics covered will include the difference between the European Union and the European Communities; the institutional structure of the Union; law making in the EU; the impact of EU Law on the legal systems of the Member States and on individuals, especially the doctrines of direct effect, supremacy and state liability; the single market with the four basic market freedoms and the single currency; the external relations of the Union, especially with Australia; the future of the EU.

**LAW 7061**  
**Globalisation & the Legal Regulation of Work (PG)**

3 units - semester 1

24 hours

Available for Non-Award Study

Assessment: Participation, assignments/research paper &/or exam as determined at first seminar

The course focuses upon the nature of globalisation and its impact in law, especially the law governing work. Students will consider the role of the ILO and the intersection of international trade law and labour regulation. In this context, students will examine the role of human rights and the development of corporate codes of conduct regarding labour matters. Students will also consider themes underpinning debate concerning the scope and application of labour regulation and the new forms of regulation governing work.



## **LAW 7062** **Selected Issues in Intellectual Property Law (PG)**

3 units - winter semester

24 hours

Restriction: For LLM, MCL and MBL students

Check with School for Non-Award Study

Assessment: Participation, assignments/research paper &/or exam as determined at first seminar

The course will examine development of law and policy related to globalisation, cultural diversity, issues of world trade and the Internet. On the international level, students will examine the development of major international agreements, dispute resolution methods and for dealing with international disputes over intellectual property. In particular students will examine the significance of minimum standards of intellectual property rights required by the TRIPS agreement for members of the World Trade Organisation, as well as international developments for more effective protection of intellectual property rights in a digital information age reflected in WIPO's Copyright Treaty of 1996 and in the US/Australia free trade agreement. From a practical perspective students will also examine cross-border protection of intellectual property rights accompanying technology transfer, and transnational licensing and franchising.

## **LAW 7063** **Government, Business & Regulation (PG)**

3 units - semester 2

24 hours

Available for Non-Award Study

Assessment: Participation, assignments/research paper &/or exam as determined at first seminar

This course will examine legal principles of government procurement, including the powers and limitations on government instrumentalities entering into contracts, the respective roles of the three branches of government in the process, the processes of contract formation and ongoing contractual management, the resolution of disputes arising out of both processes and the various forums for dispute resolution. Topics will include: Open Tenders and Sealed Bids; Negotiation; The problems of offer, acceptance and consideration; The authority of government agents to contract; Crown privileges and immunities - including government liability in contract, tort and equity; The government and the Trade Practices Act and Fair Trading legislation; Contract Administration and Variation, including the impact of evolutionary or relational theories of contract upon the management of government contracts; Contract termination; Executive necessity; Legislative overriding of contractual obligations; Raising an estoppel against the government; Administrative law remedies for breach of contract; The accountability structure of government as it impacts on contract with government.

## **LAW 7064** **Intellectual Property Law (PG)**

3 units - semester 1

24 hours

Check with School for Non-Award Study

Assessment: Participation, assignments/research paper and/or exam as determined at first seminar

This course aims, through a treatment of laws relating to patents, trademarks, confidential information, copyright and other regimes, to examine the protection provided by the law in regard to ideas, inventions, information and other forms of creative effort. The course also aims to explore how the law deals with a particular problem, and how in solving that problem the law must balance interests and protect investment while taking into account the public welfare and technological developments. The course will explore the inter-relationship of the different regimes in the commercialisation or exploitation of intellectual property. Upon completion of the course, students will 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 7065** **International Commercial Arbitration (PG)**

3 units - semester 2

24 hours

Available for Non-Award Study

Assessment: Participation, assignments/research paper &/or exam as determined at first seminar

International commercial arbitration has become the primary form of dispute resolution in international trade settings. This course will consider: The nature of international arbitration including its advantages and disadvantages as a form of dispute resolution in the international trade context; The distinction between international and domestic arbitration; Jurisdictional issues relevant to international arbitration; Choice of Law in International Arbitration; UNCITRAL Model Law and its application in Australia and elsewhere; Other model rules; Enforcing international arbitration agreements; Appointment and qualifications of arbitrators; Due process review of the arbitration - including bias, failure to observe procedural fairness; Privacy and Confidentiality of the parties and evidence; Challenging the award; Enforcing the award.

## **LAW 7066** **Private International Law (PG)**

3 units - semester 2

24 hours

Available for Non-Award Study

Assessment: Participation, assignments/research paper &/or exam as determined at first seminar

The course deals with the law applicable to international business transactions, including the law of contract, the law of torts, and equitable duties. It will also examine the recognition of foreign law as well as the recognition of Australian law overseas, in particular of law, which purports to apply extraterritorially. In this context,

the course will critically evaluate whether the law appropriately balances comity against sovereignty. The development of international treaties to achieve such a balance will also be considered.

The jurisdiction of Australian courts over defendants resident in other countries and the mutual recognition of jurisdiction over Australian defendants by foreign courts will be studied. Consequently, the recognition of foreign judgements and awards and international treaties governing mutual recognition will also be examined.

### **LAW 7067 International Criminal Law (PG)**

3 units - semester 1

24 hours

Available for Non-Award Study

Assessment: Participation, assignments/research paper and/or exam as determined at first seminar

This course examines the general principles of international criminal law as well as the fundamentals of international criminal procedure, providing a practical and theoretical framework for the rules, concepts and legal constructs key to the subject.

### **LAW 7068 International Energy Law (PG)**

3 units - semester 2

36 hours

Check with School for Non-Award Study

Assessment: To be advised

The course examines the formulation of international energy law and policy at an international level in organisations such as: United Nations - UNEP, UNDP, IAEA; OECD - IEA, NEA; World Bank, ERBD and other financial institutions. It will also examine state jurisdiction over: Energy resources and co-incident activity; The regulation of exploration for oil and gas; Maritime and overland transport of oil and gas.

The intersection between state jurisdiction and international energy law as well as international trade law through WTO law will also be considered.

### **LAW 7070 International Trade Law (PG)**

3 units - semester 1

24 hours

Available for Non-Award Study

Assessment: Participation, assignments/research paper &/or exam as determined at first seminar

This course will examine the law governing international transactions including contracts for the sale of goods, transport, payment and insurance. In addition, the course will look at the legal vehicles available to facilitate international transactions including distribution, agency, licensing, franchising and transfer of technology. Dispute resolution methods applicable to international transactions will be examined. Choice of law and the recognition of foreign awards and judgements will also be considered.

### **LAW 7072 The Law of Work in the New Economy (PG)**

3 units - semester 1 or 2

36 hours

Available for Non-Award Study

Assessment: Participation, assignments/research paper &/or exam as determined at first seminar

The course examines the impact of deregulation and new technology in the workforce focussing on issues such as non-standard labour relations, the impact of restructuring of business on employment and labour relations, privacy in the workplace and the use of new technology.

### **LAW 7073 Transnational Crime & Terrorism (PG)**

3 units - semester 1

24 hours

Available for Non-Award Study

Assessment: Participation, assignments/research paper &/or exam as determined at first seminar

Contemporary Crime and Criminal Justice is increasingly characterised by the globalisation of criminal activities and international efforts to combat transnational crime. The focus of this course is with the growing body of international criminal law, increasing numbers of international conventions to combat transnational crime and domestic efforts in Australia to accede to and implement this body of law. This course is concerned with the criminalisation of transnational criminal activities, and national, regional and international efforts to investigate such crime and prosecute offenders. The course examines the opportunities and limitations of international conventions on the prevention of crime. Australia's experiences with transnational criminal activities and its efforts to fight these activities.

### **LAW 7074 Transitional Justice (PG)**

3 units - not offered in 2009

36 hours

Available for Non-Award Study

Assessment: Participation, assignments/research paper &/or exam as determined at first seminar

Transitional justice is those measures by which a society accounts for past abuses as it transits from a state of conflict, apartheid or dictatorship, where the perpetrators of violence enjoy impunity, to civil peace, where the state seeks to provide justice and security to its citizens. In this course, students consider the effectiveness of these measures, which include constitution-making, amnesty agreements, truth commissions, lustration processes and courts, whether international, local or hybrid. These measures are examined through case studies: South Africa's Truth and Reconciliation Commission, the work of international organisations and courts in Bosnia and Herzegovina, the United Nations' Mission in East Timor, local 'Gacaca' courts in Rwanda and the process of drafting constitutions in countries such as Afghanistan and Iraq. The course also addresses the aims of

these transitional measures, for example, the fact that restorative justice in the form of a truth commission places emphasis on the need for reconciliation between victims and perpetrators rather than simply punishment of the latter.

### **LAW 7076** **International Economic Law (PG)**

3 units - semester 2

24 hours

Available for Non-Award Study

Assessment: Participation, assignments/research paper &/or exam as determined at first seminar

This course is an introduction to the multilateral legal trading system. The agreements of the World Trade Organization (WTO) are reviewed from both a policy and law perspective. The foundation principles of free trade - most favoured nation; national treatment and tariff bindings - as embodied in the General Agreement on Tariff and Trade (GATT 1994) are examined. In addition, the most important regional trade agreements (i.e. European Union and NAFTA) are analysed in the context of the multilateral trading system. Finally, we examine the evolving WTO jurisprudence as a result of more than 300 cases brought under the new WTO dispute settlement mechanism.

### **LAW 7080** **Human Rights Internship Programme (MCL)**

3 units - semester 1 or 2

36 hours

Restriction: MCL students only

Check with School for Non-Award Study

The course involves students undertaking unpaid 'internships' with human rights organisations located internationally and nationally for a period of 8-12 weeks. 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 undertake an agreed research task under the supervision of a senior person at the chosen human rights organisation. This research task might involve research into a specific area of law or policy for the purpose of a 'test-case' being run in the courts, for the drafting of a report, or the preparation of educational material. The research task will be negotiated by the student and the organisation, with the approval of the course coordinator. It is expected that students will also be involved in the day-to-day activities of the organisation and gain an understanding of how such organisations operate. Prior to commencement, students will be given orientation to introduce them to the strategies and procedures generally employed by human rights organisations. The orientation will be conducted by the course convener in conjunction with practitioners in the field.

### **LAW 7085** **Contractual Relations (MCL)**

3 units - semester 1 or 2

24 hours

Restriction: MCL only

Assessment: participation, assignments/research paper &/or exam as determined at first seminar

This course acquaints students with the content and application of common law, equitable and statutory rules relating to enforceable agreements and puts those rules in their practical and social perspective. Although the course is not concerned with the various statutory modifications made with respect to specific classes of contract (eg employment, land, consumer finance etc), which are dealt with in other courses, an understanding of the basic conception of a contract is vital not just as a starting point for those statutory models but also for an understanding of everyday commercial agreements. The following topics will be covered: Creation and content of a contract (formation, privity, agency, terms); statutory remedies for misleading and deceptive conduct in trade and commerce; misrepresentation; unconscionable dealing; improper pressure; performance and discharge of obligations (performance, breach, frustration, variation and discharge by agreement); and remedies (enforcement, compensation, restitution).

### **LAW 7087** **Negligence and Intentional Wrongs (MCL)**

3 units - semester 1 or 2

24 hours

Restriction: MCL only

Assessment: Participation, assignments/research paper &/or exam as determined at first seminar

This course considers the tort of negligence including defences, with some consideration to damages, concurrent liability and alternative methods of providing compensation for accidental injury. A representative range of other torts and their defences that may include intentional torts to the person and torts to physical objects will also be examined.

### **LAW 7092** **Contractual Relations**

4 units - semester 1 or 2

24 hours

Restriction: M Bus Law students only

Available for Non-Award Study

Assessment: Participation, assignments/research paper &/or exam as determined at first seminar

This course acquaints students with the content and application of common law, equitable and statutory rules relating to enforceable agreements and puts those rules in their practical and social perspective. Although the course is not concerned with the various statutory modifications made with respect to specific classes of contract (eg employment, land, consumer finance etc), which are dealt with in other courses, an understanding of the basic conception of a contract is vital not just as a

starting point for those statutory models but also for an understanding of everyday commercial agreements. The following topics will be covered: Creation and content of a contract (formation, privity, agency, terms); statutory remedies for misleading and deceptive conduct in trade and commerce; misrepresentation; unconscionable dealing; improper pressure; performance and discharge of obligations (performance, breach, frustration, variation and discharge by agreement); and remedies (enforcement, compensation, restitution).

### **LAW 7093** **Negligence and Intentional Wrongs**

4 units - semester 1 or 2

24 hours

Restriction: MBL students only

Available for Non-Award Study

Assessment: Participation, assignments/research paper &/or exam as determined at first seminar

This course considers the tort of negligence including defences, with some consideration to damages, concurrent liability and alternative methods of providing compensation for accidental injury. A representative range of other torts and their defences that may include intentional torts to the person and torts to physical objects will also be examined.

### **LAW 7094** **Principles of Australian Law**

4 units - semester 1 or 2

24 hours

Restriction: MBL students only

Available for Non-Award Study

Assessment: Participation, assignments/research paper &/or exam as determined at first seminar

This course provides the introduction to Australian Law and Legal System, forming a basis for the further study of law. In particular, the course examines law making and court processes and hierarchies in Australia; the role of Courts and legislature in Australia, including their historical background and the development of the Australian legal system; legal system taxonomy, including the Australian federal system, public and private law, other families of legal systems, including the international legal system and comparative law; an introduction to human rights law; and an introduction to legal theory, addressing the nature of law and critical legal thinking. The course will also provide an introduction to legal research and problem solving.

### **LAW 7096** **Sport Law (PG)**

3 units - semester 1 or 2

36 hours

Available for Non-Award Study

Assessment: Class participation 20%, 7,000-10,000 word research essay 80%

Sport has become a global business, generating large incomes for leading industry participants, and raising a number of commercial and legal issues of concern

to players, administrators and supporters. This course seeks to guide sport industry participants, their legal advisors and others having a general interest in the area through the principal legal issues affecting commercial sport. Relevant legal principles from torts, contracts, employment and labour relations, restrictive trade practices, administrative law and intellectual property will be used to analyse common transactions and structures in commercial sport with particular attention to specialised applications and rules. The analysis will cover team membership agreements, professional player contracts, liability and compensation for injury, collective bargaining, player representation, labour market controls, league arrangements, disciplinary proceedings and dispute resolution, marketing and sponsorships, and sports broadcasting. The focus will be on Australian law with reference to global arrangements and comparative perspectives where appropriate.

### **LAW 7099** **International Export Trade and Transport Law PG**

3 units - semester 1 or 2

24 hours

Available for Non-Award Study

Assessment: Oral presentation of a export case problem 20%, 2000 words essay 30%, final exam 50%

The course deals with the law applicable to international trade of goods and commodities. For the purposes of UN General Assembly resolution 2102 (XX) the expression "law of international trade" may be defined as the body of rules governing commercial relationships of a private law nature involving different countries. This definition is consistent with the concept of the law of international trade described in the explanatory memorandum of the Permanent Representative of Hungary and in the Secretariat note submitted to the twentieth session of the General Assembly. The secretariat note listed the sale of goods, negotiable instruments and banker's commercial credits, laws relating to conduct of business activities pertaining to international trade, insurance, transportation as examples of topics falling within the scope of the law of international trade. The course examines the legal, administrative, and practical hurdles that anyone involved in trade of goods and commodities will face. A particular emphasis will be made on transportation law, which underlies the correct working of this system.

The aim of this course is to provide students, legal practitioners, people in business and those in the public sector who encounter various aspects of international trade law with the knowledge and skills required to resolve legal problems arising out in this difficult and ever changing area of private international law. On successful completion of this course student should be able, at threshold level, to understand aspects of the legal rules and principles governing international trade, analyse legal problems and appreciate the legal constraints on business engaged in international trade, develop the expertise to construct arguments and suggest solutions by application of the relevant legal principle and/or policy.

## **LAW 7111** **Principles of Australian Law (MCL)**

3 units - semester 1 or 2

24 hours

Restriction: MCL only

Assessment: Class participation, written assignment/s, exam

This course provides the introduction to Australian Law and Legal System, forming a basis for the further study of law. In particular, the course examines law making and court processes and hierarchies in Australia; the role of Courts and legislature in Australia, including their historical background and the development of the Australian legal system; legal system taxonomy, including the Australian federal system, public and private law, other families of legal systems, including the international legal system and comparative law; an introduction to human rights law; and an introduction to legal theory, addressing the nature of law and critical legal thinking. The course will also provide an introduction to legal research and problem solving.

## **LAW 7115** **Insolvency Law**

3 units - semester 1

24 hours

Assessment: Typically will include either a research essay or examination.

The course will cover insolvency of corporations and individuals, and will include: (1) an introduction to the theory, policy and history of insolvency law, and to its fundamental principles; (2) an introduction to the main forms of insolvency procedure for individuals (bankruptcy and its alternatives) and corporations (liquidation, voluntary administration, and receivership); (3) issues in relation to personal insolvency including consumer bankruptcy, the property of the bankrupt 'estate', and the rights of bankrupts and restrictions upon them; (4) the role and duties of directors; (5) the regulation and reform of insolvency law and the profession, and 'globalisation' of insolvency law and practice through involvement of international bodies; (6) an introduction to cross-border insolvency.

By the end of the course students should have a grounding in the basic principles and rules of Australian insolvency law, an understanding of, and ability to evaluate, the key theoretical and policy issues affecting insolvency law and its reform, an appreciation of contemporary international developments, and an ability to research and analyse problems on Australian insolvency law.

## **LAW 7120** **Human Rights: Problems & Processes (PG)**

3 units - semester 1 or 2

24 hours

Assessment: 8,000 word paper 90%, class participation 10%

This course will focus on global and regional human rights systems, placing some emphasis on the UN treaty body reforms presently under discussion. The interrelationship of international law and regional human rights law will

be analysed, with a particular focus on the role of the UN Security Council in this regard. Conflicts of human rights jurisdiction in the European context will be used as examples, the so-called "Bermuda triangle" between the European Court of Justice, the European Court of Human Rights, and national constitutional courts, such as the German Federal Constitutional Court and the British House of Lords will be reviewed.

## **LAW 7121** **Corporations in the Global Age**

3 units - semester 1 or 2

24 hours

Assessment: 8,000 word paper 90%, class participation 10%

The primary objective of the course is an exploration of the conceptual foundations of corporate law in an epoch dominated by globalization. For a full understanding of corporate legal relations it is necessary to excavate legislation and judicial decisions in order to locate the social, political and economic context in which these legal principles operate. In order to undertake this task the course will begin with readings that examine the historical genesis of the modern corporation. The course will then pinpoint the evolution of Australian corporate regulation and the pressures being exerted on a national based regime in an epoch of growing internationalization. The course will then fan out to embrace issues such as the corporate social responsibility movement; lawyers and corporate power; corporations and the environment; corporations and taxation; directors' duties and the forces underpinning the movement towards the global harmonization of corporate legal relations.

## **LAW 7122** **Transnational Business & Human Rights**

3 units -

24 hours

Assessment: 8,000 word paper 80%, class participation 10%, class presentation 10%

This course focuses on the relationship and interconnection between business activities and human rights obligations. It examines the basic principles of international human rights law, with particular emphasis on economic and social and cultural rights and uses this as a basis with which to examine current initiatives - in international human rights law, company law, tort law and trade practices law - for the regulation (and self-regulation) of transnational business both in Australia and internationally. The course will also focus on the role of business in development and briefly, the human rights impacts of international trade and investment.

## **LAW 7123** **Perspectives on Property & Society**

3 units - semester 1 or 2

24 hours

Assessment: 4,000 word paper 40%, exam 40%, class presentation 10%, class participation 10%

Property law lies at the very heart of any society and its legal system. This subject aims to give students an overview of property law regimes, looking at their basis in theory and their application in practice. The subject is divided into three parts. The first two weeks challenge students to ask 'what is property and why is it so central to social relationships?'

This theoretical background is then explored via a practical consideration of the varieties of property found in a functioning legal system. In particular, the second part of the subject, which runs for eight weeks, considers three types of private property: personal property, land law, and water rights. The assessment of personal property focuses on differences between common and civil law traditions and explores the Sale of Goods regimes of the former. The land law component explores the common law, and specifically the differences between the general law and Torrens systems of land title. Finally, this part of the subject considers the common law and legislative regimes that establish property in water. The final two weeks of the subject examine native title in Australia, Canada and New Zealand. Within each of these topics there will be discussion of contemporary issues surrounding property, such as climate change, indigenous land rights and reconciliation, and water scarcity.

#### **LAW 7124 Workplace Bargaining**

3 units - semester 1

24 hours

Assessment: To be advised

The process for setting wages and conditions through both collective and individual negotiations has assumed a central importance in the regulation of workplace relations. Following a general introduction to the principles of Australian labour law, the course examines the nature and extent of collective bargaining, the processes for making, varying, terminating and enforcing collective agreements, the use and significance of individual workplace agreements, and the regulation of industrial action. Particular topics covered include the special regulation that applies in the building and construction industry, and international labour standards concerning the 'right to strike'. The course also focuses on the political, economic and social controversies surrounding the reform of workplace bargaining laws, especially under the Howard and Rudd Governments.

#### **LAW 7150 European Business Law**

3 units - semester 2

24 hours

Restriction: Master of Business Law only

Prerequisite: Principles of Australian Law, Contractual Relations

Assessment: Likely to include 3000 word essay, 3000 word answer to problem question, 20-minute oral presentation, Class participation

This course examines the legal framework for the conduct of business in the European Community as well as the wider implications of the role played in international

trade by the EC as a trading power. The course seeks to analyse in detail the mechanisms for the creation and maintenance of the single market within the EC. To this end it considers the critical areas of free movement of goods, persons, services, economic enterprises (establishment) and capital as well as the contingent issues of taxation and harmonisation.

Topics covered in this course will include: background to the free trade area, creating the internal market, free movement of goods, customs duties, internal taxation, physical and technical barriers to trade, derogations and justification, the external economic relation of the EU - the common commercial policy, intellectual property, free movement of workers, derogations - third country nationals, right of establishment, freedom to provide and receive services, free movement of capital, European Monetary Union, collision of EC economic rights with human rights and fundamental freedoms, regulating the internal market - harmonisation, competition law - restrictive practices- dominant position, state aids, mergers and acquisition in the EU, modernisation of European competition law, the European Union as a world trade actor.

## **Linguistics**

#### **LING 5001 Computer Assisted Language Learning - CALL**

6 units - semester 1

Restriction: postgraduate Applied Linguistics students

Available for Non-Award Study

Assessment: review of CALL research, documentation of project on use of information technologies for communication, education, media & other workplaces

A practical introduction to the use of information technologies, this course develops skills in the creation and use of electronic environments for communication and educational purposes. Students have the opportunity to develop projects with applications to workplaces, including media, TESOL and education.

#### **LING 5004 Language and Meaning**

6 units - semester 1

Restriction: postgraduate Applied Linguistics students

Available for Non-Award Study

Assessment: Text analyses, report of investigation into language use

Language is embedded in everyday actions as it is used to carry out different functions. The purpose of this course is to investigate the linguistic choices which differentiate uses of language, for example the differences between spoken and written language, between academic discourse and informal language. Students are introduced to the analysis of texts using functional grammar with applications in TESOL, education, media and other workplaces.

## LING 5008 Language and Environment

6 units - not offered in 2009

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Restriction: postgraduate Applied Linguistics students

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Available for Non-Award Study

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Assessment: Assignments to a total of 8-9000 words or equiv

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This course examines both the central role of human languages in the perceptions of environmental matters (language of ecology) and the nature of the environment in which such languages can survive (ecology of language). Students will learn to apply available linguistics techniques and methods to the analysis of environmental discourse and will learn about the inter-dependencies between linguistics and cultural diversity. A wide range of primary English language documents will be analysed and contrasted with environmental discourse in languages other than English. Students will find out about the rapidly growing ecolinguistic literature published around the world. Topics include: ecolinguistic literature around the world, environmental metaphors, analysing environmental discourse, ecospeak, environmental terminology: changes and cross-cultural perspectives, comparisons.

## LING 5009 Language Teaching in Specific Settings

6 units - semester 2

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Restriction: postgraduate Applied Linguistics students

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Available for Non-Award Study

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Assessment: Critical review of topic on curriculum design, documentation of curriculum in action, curriculum design project

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For this course students study contemporary examples of curriculum design for different purposes and contexts. The contexts include teaching English to speakers of other languages (TESOL), first language education, academic disciplines and adult literacy. There is a particular focus on curriculum in action together with a critical review of various approaches to curriculum design.

## LING 5010 English for Academic Purposes

6 units - semester 2

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Restriction: postgraduate Applied Linguistics students

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Available for Non-Award Study

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Assessment: Analysis of subject specific texts and documentation and analysis of academic discourses

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The aim of this course is to extend students' understanding of the features of different academic texts, including their own, in order to develop an awareness of language and visual resources we use for communication. Of special interest is the practical analysis of how subject specific knowledge is constituted by discourse features and visual systems of meaning. Students document and analyse characteristic features of academic texts from different disciplines. The study of texts is applicable across disciplines, from science to humanities and education, including TESOL.

## LING 5011 Language and Learning

6 units - semester 1

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Restriction: postgraduate Applied Linguistics students

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Available for Non-Award Study

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Assessment: reviews of research, report on research project

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In this course students analyse leading-edge developments in language and literacy education. The course combines practical teaching strategies with theoretical analyses of language and language learning. The course has applications to teaching English to speakers of other languages (TESOL) as well as to literacy and language education.

## LING 5017 Language Teaching Methods: TESOL/LOTE/Literacy

6 units - semester 2

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Restriction: postgraduate Applied Linguistics students

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Available for Non-Award Study

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Assessment: Teaching portfolio, report on classroom observations, teaching practicum

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The course is designed to prepare students for teaching language in different settings. It introduces a theoretical framework for language pedagogy which conceptualises language learning and teaching as processes of socialisation. Students review instructional techniques, plan lessons, develop teaching resources, and construct assessment procedures. The course includes a Practicum, in which students systematically document lesson observations, prepare instructional materials and teach under supervision. Students who are practicing teachers negotiate a classroom study topic as an alternative to the practicum.

## LING 5030 Language and Communication Planning

6 units - not offered in 2009

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Restriction: postgraduate Applied Linguistics students

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Available for Non-Award Study

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Assessment: 4000 word essay, 5 practical exercises or annotated diary of data observation - analysis totalling 5000 words

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Students will be familiar with the ecology and sociology of language approaches to language maintenance as well as the technical linguistic apparatus needed in the area of language engineering. Particular attention will be given to language planning in Australia and neighbouring countries. At the end of this course students will have an understanding of the wider ramifications of language planning and maintenance as well as skills in the area of micro language engineering.

## LING 5059 Special Topic in Linguistics

6 units - semester 1 or 2

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Restriction: postgraduate Applied Linguistics students

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Available for Non-Award Study

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Assessment: Negotiated research project & project report

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This course is a research option which involves researching a topic negotiated with the program coordinator and related to a student's specific interests. The topic may be based on the areas of expertise of a visiting scholar.

### **LING 5501** **Dissertation in Linguistics F/T**

12 units - semester 1 or 2

Restriction: M.A.(Applied Linguistics) students

Assessment: 18000 word dissertation

Dissertation on an Applied Linguistics topic approved by the Convenor of Applied Linguistics.

### **LING 5502A/B** **Dissertation in Linguistics P/T**

12 units - full year

Restriction: M.A.(Applied Linguistics) students

Assessment: 18000 word dissertation

Dissertation on an Applied Linguistics topic approved by the Convenor of Applied Linguistics.

## **Management**

### **COMMGMT 7006** **Organisational Behaviour (M)**

3 units - semester 2

3 hour seminar per week

Assessment: Test, oral presentation, written assignment, tutorial participation, exam

This course focuses on the theories and concepts that underlie employee behaviour in organisations. In particular, this will include a consideration of how the organisation is influenced by attributes and behaviours of individuals, group processes, and elements of the organisation system. Further, a practical perspective will be accommodated and current challenges facing organisational behaviour will be covered.

### **COMMGMT 7007** **Strategic Management (M)**

3 units - semester 2

3 hour seminar per week

Assumed Knowledge: COMMGMT 7008 - concurrent enrolment sufficient

Assessment: 2 assignment 20% each, tutorial preparation notes 5%, final exam 55%

This course introduces students to the fundamentals of strategic management. A key objective of the course is to develop students' understanding of the issues related to longer-term strategy formulation in the context of public, private and not-for-profit business sectors. Key topics covered in the course include strategic planning, strategic implementation, and strategic control. Consideration is also given to a range of specialist issues in strategic management.

### **COMMGMT 7008** **Management Practice (M)**

3 units - semester 1

3 hour seminar per week

Assessment: Assignment, exam as determined at first lecture

This course introduces students to the fundamentals of management practice by surveying the roles and functions undertaken by managers. It introduces the concept of an organisation and explains the need for management, the development and evolution of management theory, the types and levels of managers, and their internal and external environments, including an analysis of the ethical and social responsibilities owed to those environments. Extensive coverage of the four key management functions (planning and decision-making, organising, leading and motivating, and controlling) is also included. Finally, the course addresses a number of emerging issues in management.

### **COMMGMT 7009** **Structure and Performance in Organisations (M)**

3 units - semester 1

3 hour seminar per week

Assessment: Assignments, exam as determined at first lecture

Drawing on insights found in contemporary literature on organisational structure and design, this course will develop an understanding of the role organisation design plays in enhancing organisational performance. In particular, this course will focus upon the nature, functions, and dysfunctions of various structural alternatives and the need to match organisational structure and design to the organisation and its environment. Topics covered include: "classic" organisational designs such as the simple, functional, divisional, hybrid, and matrix forms; mechanistic and organic organisations; open system design elements; contingency approaches to organisational design; employee involvement and empowerment; outsourcing, downsizing and organisational re-engineering; virtual organisational structure and design; and using structural means to promote innovation.

### **COMMGMT 7010** **Optimising Human Performance (M)**

3 units - semester 1

3 hours seminar per week

Assessment: Assignments, exam as determined at first lecture

This course examines the role of assessment and evaluation as a basis for optimising human performance in organisations. It adopts an employment life cycle perspective whereby the importance of assessment and evaluation is considered in relation to: the initial recruitment, selection and induction of employees; their subsequent maintenance and motivation through human resource management practices such as training and development, performance and appraisal, compensation, career development and succession planning; and their final departure from the organisation (whether via resignation, retirement, or termination). In addition to



its focus on assessment and evaluation at an individual level, the course also considers how these activities can be used to establish the "bottom-line" justification for an organisation's human resource management practices.

### **COMMGMGT 7011** **Corporate Governance and Globalisation (M)**

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3 units - semester 1

3 hours seminar per week

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Assessment: Assignments, exam as determined at the first lecture

This course will provide an understanding of the systems and practice of governance in corporations. Taking an international focus, the course will compare the current Australian practice with international systems of corporate governance. The issues of monitoring mechanisms, and the effects of government regulations are explored and current reforms of corporate governance are analysed. Further issues addressed will include board profiles, roles and performance, CEO-board relationships, reasons for and governance lessons from corporate failures, and approaches to assessing governance effectiveness

### **COMMGMGT 7012** **Managing Social Responsibility (M)**

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3 units - semester 2

3 hours seminar per week

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Assessment: 2 assignments 25% each, final exam 50%

This course reflects the major contemporary trends in corporate citizenship, social and environmental responsibility and accountability. Communities and governments now require organisations to be responsible and accountable for their performance in relation to their social and environmental responsibilities, and these responsibilities have increasingly formed part of organisations' ethical values and strategic agendas. In addressing the issue of effective performance management in these areas of responsibility, this course will include consideration of the enlarged spectrum of corporate stakeholders; corporate social responsibilities, citizenship and reputation; business-government relationships and political environmental management; sustainable development; environmental management and accountability; social investing and corporate philanthropy; community and employee relationships; and public affairs and media management. Accordingly, this course focuses on understanding and implementing enhanced organisational performance that includes social, environmental and ethical performance indicators in addition to the traditional financial performance indicators.

### **COMMGMGT 7013** **Strategic Evaluation and Control (M)**

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3 units - semester 2

3 hours seminar per week

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Assessment: Test, group oral presentation, group assignment, exam

This course will examine control and related performance evaluation issues inherent in corporate, business and functional level organisational strategies. Foundations for effective control will be built on the recursive relationship

between organisational planning and control and generic approaches to organisational control, and behavioural and output control. The course will also address issues of operational and financial control in relation to organisational structure and culture, performance evaluation and reward systems, and risk management across private, public and non-profit sectors.

### **COMMGMGT 7014** **Strategic Compensation Management (M)**

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3 units - semester 2

3 hour seminar per week

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Assessment: Oral presentation, written assignments, test, tutorial participation, exam

This course focuses on compensation as a component of human resource systems. It will explore how human resources design strategic compensation programs to promote company success. Micro and macro level compensation concepts will be considered. This will include issues relating to contextual factors, job analysis and evaluation, bases for pay, the design of compensation systems, and employee benefits. Further, current challenges such as international compensation and compensating a flexible workforce will be covered.

### **MANAGEMENT 7000** **Entrepreneurship**

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3 units - summer semester or trimester 1 or trimester 3

Prerequisite: MANAGEMENT 7100, MANAGEMENT 7104

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Assessment: Assignments, case study analyses, group or individual projects, class participation

Entrepreneurship is increasingly recognised as an important driving force in the economic development and prosperity of a community. While broader issues of entrepreneurship are covered, the course focuses on entrepreneurship in new venture creation, identifying opportunities, business planning for a new venture, obtaining venture capital, growth, technological innovation, harvesting wealth and coping with failure and bankruptcy.

### **MANAGEMENT 7012** **Business Performance Improvement**

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3 units - trimester 1 or trimester 3

Prerequisite: MANAGEMENT 7086, MANAGEMENT 7087, MANAGEMENT 7100

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Assessment: Individual assignment, group assignment, group presentation, participation in class activities

This course provides students with the knowledge and skill-set required to formulate and implement sustainable improvement strategies aimed at improving business performance and overall competitiveness. It provides a practical appreciation and understanding of the various improvement strategies and techniques that have come to prominence during the past few decades, including Total Quality Management, Business Process Re-engineering and more recently Six Sigma and Lean Thinking. It considers these approaches and their use against the broader agenda of how to achieve sustainable improvement and the development of sustainable sources

of competitive advantage. In particular, students are introduced to the idea of 'process thinking' and related concepts such as cost of quality, complexity, variation etc. i.e. considering the business and identifying improvement opportunities by viewing it from a process perspective. Students are also introduced to methodologies for business review and diagnosis - similar to the approaches used by the major management consulting firms.

The later stages of the subject considers implementation issues arising with business performance improvement strategies to ensure that organisations are able to learn and achieve cumulative improvements over time, rather than temporary 'fad chasing' as is often the case.

### **MANAGEMENT 7022 Business Law**

3 units - trimester 2 or trimester 3

Prerequisite: MANAGEMENT 7086, 7100 & 7104

Assessment: in-class test, individual assignment, final exam

This course will introduce managers to a range of legal issues that impact on their business and on their duties and responsibilities as managers. There is an increasing trend in the law to make managers personally liable for breaches of the law by their business. The course will help managers to identify areas of legal liability and risk and suggest how to minimise legal risk.

The topics covered in the course include an introduction to the Australian legal system, the law of business structures, contract law, intellectual property law, employment law, law of business torts, consumer protection law, competition law and electronic commerce law. In each topic, emphasis is placed on identifying the legal duties that apply to a manager and the legal liabilities that may be attracted by their actions.

### **MANAGEMENT 7031 Operations Management**

3 units - summer semester or trimester 1 or trimester 3

Check with School for Non-Award Study

Prerequisite: MANAGEMENT 7086, MANAGEMENT 7100

Assessment: Assignments, case study analyses, group or individual projects, class participation

This course examines the role of the Operations Management and its role in supporting effective Strategy execution, and how it may be leveraged as a sustainable source of competitive advantage. Topics covered include addressing the strategic issues of operations strategy formulation and associated implementation decisions, including choice of process and technology, operational structures, facility location, detailed layout, process and job design, and strategic operational planning. Manufacturing, process and service industry contexts are all considered. The tactical aspects of implementing and managing effective operations are then considered. This includes, inventory control, MRPII/ERP, operations scheduling, quality management, supply chain management and operations improvement.

### **MANAGEMENT 7039 Management of Change**

3 units - summer semester or trimester 2

Prerequisite: MANAGEMENT 7086, MANAGEMENT 7087

Assessment: Assignments, case study analyses, group or individual projects, class participation

The objectives of this course are to explore approaches to understanding and to managing the organizational change process, and to identify practical approaches to effective change implementation. The course will strike a balance between theory and research on the one hand, and practical management tools and techniques on the other.

The course will consider management skills in change implementation as well as the organisation's ability to encourage innovation, and to cope with change. One integrating theme of the course will be the expertise of the change agent, the nature of that expertise, and how it can be developed. A second integrating theme will concern the organizational attributes that either encourage or stifle creativity, innovation, and change, and how to develop creative organization cultures that are receptive to innovation and change.

### **MANAGEMENT 7040 Project Management**

3 units - trimester 1 or trimester 3

Check with School for Non-Award Study

Prerequisite: MANAGEMENT 7086, 7100 & 7101

Assessment: Assignments, case study analyses, group or individual projects, class participation

This course investigates the increasing use of projects to accomplish limited duration tasks in many organisations and the unique style of administration required to manage them. Projects considered include RandD studies, campaigns, construction, emergency operations and other such endeavours. Topics include the selection of projects, creativity and technological forecasting, the role of the project manager, how to organise and plan a project, negotiation and conflict resolution, budgeting and cost estimation, project scheduling (PERT/CPM) and resource location among multiple projects, project monitoring and information systems (including project management software), controlling projects, auditing projects, ways of terminating projects and running projects in multicultural settings.

### **MANAGEMENT 7042 Corporate Strategy**

3 units - trimester 2

Prerequisite: all compulsory core courses in MBA program

Assessment: Exam, written assignments, case study analyses, group or individual projects, class participation

An integrated study of strategic decision making in organisations that builds on the concepts introduced in Strategic Management, and on knowledge gained from previous studies in functional areas of management. Prior studies in business level strategic management enables the focus in this course to be directed towards corporate and multi-business strategy, on globalisation and cross

organisational relationships, and on the role of the senior management team. The course is based on presentations by the course coordinator, on case studies, and group presentations on organisational strategies. Specific topics include diversification, managing the multi-business organisation, mergers and acquisitions, transformation, strategic alliances, globalisation, top management teams, and the implications of developments in information technology and communication for corporate strategies.

### **MANAGEMENT 7044 Strategic Management**

3 units - trimester 1 or trimester 2 or trimester 3

Prerequisite: MANAGEMENT 7086, MANAGEMENT 7103, MANAGEMENT 7100, MANAGEMENT 7104

Corequisite: MANAGEMENT 7087, MANAGEMENT 7059

Assessment: Exam, written assignments, case study analyses, group or individual projects, class participation

Strategic management is concerned with the long-term direction, scope and performance of an organisation. As such it draws on other disciplines (e.g. marketing, finance, economics, organisational behaviour) already covered in the MBA. Whether the overall 'strategy' of an organization emerges from the interplay of functional departments or is a 'grand plan' devised by one group, its implementation takes place at the functional/process level where goals, plans and actions need to align with other departments as part of a coherent orientation. Hence all managers need to understand how their roles and functions are part of the overall strategy of the organisation.

### **MANAGEMENT 7045 Services Marketing**

3 units - trimester 1

Check with School for Non-Award Study

Prerequisite: MANAGEMENT 7104

Assessment: Assignments, case study analyses, group or individual projects, class participation

Services Marketing has the potential to embrace every business, and service often lies at the core of competitive strategy in both the 'old' and 'new' economies. This course examines the marketing issues faced by organisations competing in the service sector, or firms developing services as a source of competitive advantage; and how marketing, operations and human resource management issues need to be integrated and driven by a service orientation to create a successful service organisation. The role of customer's and of employees in service delivery is developed to expand the student's understanding and insight into the possibilities a service orientation offers.

### **MANAGEMENT 7046 Negotiation Skills**

3 units - trimester 1 or trimester 3

Check with School for Non-Award Study

Prerequisite: MANAGEMENT 7086, MANAGEMENT 7087

Assessment: Assignments, case study analyses, group or individual projects, class participation

The purpose of this course is threefold. The first is to explore the major concepts and theories of negotiation, as well as the dynamics of interpersonal and intergroup conflict and its resolution. This will involve studying the structural (eg parties, positions, interests) and process (cognitive, interactional) dynamics that are required for a sound critical understanding. The second objective is to develop practical skills applicable to a broad range of contexts. This involves direct training in identifying crucial elements of negotiation situations and implementing appropriate resolution strategies. The third objective is to develop teamwork skills by working within and through group exercises.

### **MANAGEMENT 7059HH Advanced Managerial Finance**

3 units - summer semester

Prerequisite: Managerial Finance or Managing for Value Creation

Assessment: Exam, written assignments

This course extends the range of topics, complexity of analysis, of the material covered Managerial Finance. Topics to be covered include financial analysis, financial planning, current asset management, leasing, futures markets, long term financing, mergers and acquisitions, international finance and risk management.

### **MANAGEMENT 7064 Advanced Marketing**

3 units - summer semester or trimester 2

Prerequisite: MANAGEMENT 7104

Assessment: Assignments, group project, class participation

This course builds on the knowledge of marketing theory and practice gained in Marketing Management. The course covers Brand Management and Marketing Strategy and is designed to develop students ability and thinking in the implementation and management of marketing from a business and marketing specialist perspective.

### **MANAGEMENT 7072 Management Project (Research)**

3 units - trimester 1 or trimester 2 or trimester 3

Prerequisite: 8 MBA Core courses

Assessment: Oral presentation, written reports

This course draws on the work undertaken in the core MBA courses. It provides an opportunity for an individual student or a team of 3-5 students to complete an applied research project based on a business problem or issue. Students may choose either a case study project which analyses a real-world management problem or a project which undertakes the investigation of a particular problem or issue and makes relevant recommendations.

A program of activities will be completed and lead to a case or project report. The written report will contain findings, analysis and recommendations on the problem under investigation. Where a student or team of students choose to write a management case study for assessment, the final report will consist of a written case together with separate analysis.

The Course Coordinator must approve the project before beginning. Each project will be allocated an academic project supervisor. The scope of the project and the assessment will vary according to whether the project is to be completed by an individual student or a team.

### **MANAGEMENT 7081 Global Business**

3 units - trimester 1 or trimester 2 or trimester 3

Prerequisite: MANAGEMENT 7086, MANAGEMENT 7100, MANAGEMENT 7104, Managerial Economics

Assessment: Exam, written assignments, case study analyses, group or individual projects, class participation

Global business examines those business activities which involve trade or investment across national boundaries. These activities typically relate directly to the movement of exports or imports plus support activities such as transport, credit, marketing, payment, legal and insurance services. They may also include activities relating to the intangible assets of the firm, such as trademarks, patents, and the licensing of brand names or product and manufacturing technology. Dealing with these matters requires a working knowledge of the world's international trade and monetary systems. It follows that the scope of the global business course is broad. It necessarily embraces a host of cross border issues related to the environment in which every international business operates. These are not necessarily the direct responsibility of managers but they nonetheless impact directly on business activities.

### **MANAGEMENT 7086 Fundamentals of Leadership**

3 units - trimester 1 or trimester 2 or trimester 3

Assessment: Exam, individual assignment and group projects

Upon completion, students will possess an understanding of the development of management thought and practice, providing a background against which new trends in management can be viewed. They will be able to identify and discuss the major challenges facing management in today's environment, and, with heightened self-awareness, develop the understanding and communication skills required to effectively lead and manage a diverse workforce. To achieve success in today's competitive environment it is essential that managers develop the ability to interact positively with others, whether they be employees, employers, colleagues, customers or suppliers. Strong interpersonal skills are also required if students are to maximise the benefits from their management studies. Fundamentals of Leadership, positioned at the beginning of the MBA program, encourages students to explore issues and develop personal skills central to leadership. By exploring self-awareness, students will be well placed to broaden their understanding of others. Topics include written and oral communication skills, team skills, conflict management and stress management.

### **MANAGEMENT 7087 Managing Contemporary Organisations**

3 units - summer semester or trimester 1 or trimester 2 or trimester 3

Prerequisite: MANAGEMENT 7086

Incompatible: not for students who have completed Organisational Behaviour

Assessment: Exam, written assignments, group/individual projects

This course exposes students to some key influences and perspectives on the management of organisations. Its focus is primarily on human issues that affect and are dealt with by managers day-to-day. The course is an extension of "Fundamentals of Leadership" and provides the background and theoretical framework for more advanced studies in business management. Some of the topics addressed may, at first, seem somewhat theoretical or even 'philosophical' in nature, but the whole course is designed to provide students with the foundation for practical action in the field. The ability to analyse and to think clearly and independently about these issues will be the basis of effective action.

Managing Contemporary Organisations begins by examining the nature of 'organisation' as an 'open system'. We then look at the management challenge in relation to various facets of organisation - learning, motivation, politics, performance, ethics, culture, innovation, decision-making, structure and change. Throughout the course there is an emphasis on thinking about and asking important questions, rather than fixing on 'right' answers.

### **MANAGEMENT 7100 Accounting for Managers**

3 units - trimester 1 or trimester 2 or trimester 3

Assessment: Exam 60%, in-class test 10%, group assignment 30%

Participants in this course will develop the essential ability of all managers, to use complex accounting information as a platform for decision-making. As the course unfolds, participants will build an increasingly sophisticated level of understanding of the language of accounting and its key concepts. In addition the course develops skills in interpreting earnings statements, balance sheets, and cash flow reports. This ability to analyse financial statements will enable participants to deal more effectively with strategic options for their businesses or business units.

Strong foundations in financial analysis, and development of crucial basic accounting skills will also enable participants to develop a management accounting focus. From this second phase of the course students will take away highly relevant skills in areas such as budgeting, product and service costing and short-run decision making. Such skills, ability and knowledge will enable participants to more effectively identify profitable opportunities and to contribute significantly to better management within their own organisations.

## **MANAGEMENT 7101**

### **Managerial Finance**

3 units - trimester 1 or trimester 2 or trimester 3

Prerequisite: MANAGEMENT 7100

Assessment: Exam, written assignments

This course introduces you to the world of modern finance, especially to the financial operations of business. It covers the concepts of time value of money, asset valuation, risk and return paradigm, capital budgeting, financing, and payout decisions, and derivatives. Upon completion, students will be able to value bonds and stocks, estimate asset returns according to their risk characteristics, choose projects that maximize shareholder's wealth using a wide range of analytical tools. They will also develop a good understanding on how firms finance their capital expenditure on their investment and the levels of dividends and other payouts for their shareholders. Finally, students will gain a basic understanding on derivatives such as options and futures, and apply them for sound risk management practices.

## **MANAGEMENT 7103**

### **Economics for Management**

3 units - trimester 1 or trimester 2 or trimester 3

Assessment: Exam, written assignments, case study analyses, group or individual projects, class participation

This course provides an introduction to economic thinking and its relevance and application to managing organisations. The first part of the course deals with the structure of markets, including perfect competition, monopoly and oligopoly, and the competitive regulatory environment. The second part deals with the determinants of the aggregate level of output and employment, and elements in the determination of macroeconomic policy including interest rates, inflation and foreign trade and capital flows. The focus of the course is on current issues and their implications for managers and competitive organisations.

## **MANAGEMENT 7104**

### **Marketing Management**

3 units - trimester 1 or trimester 2 or trimester 3

Assessment: Exam, written assignments, case study discussion, group or individual projects

Marketing lies at the core of all business. Whatever the character or size of your entity, its profit can come from only one place; the marketplace. All businesses are dependent on the income they earn from their customers, clients or buyers. In most larger businesses it is marketing managers who are primarily responsible for keeping their company close to its customers. In any case, all those who have a direct responsibility for identifying, reaching and satisfying customers are engaged in marketing and everybody in a business needs to understand its marketplace activities. This course offers a complete introduction to professional marketing thought and action.

The course explains the nature and purpose of marketing, followed by the fundamentals of each of the most important marketing tasks. It analyses the business

need for customer orientation, the evaluation of markets and the targeting of market opportunities. There is then assessment of buyer behaviour and the role of market information. In addition, the course explains how to integrate product and service decisions with those on pricing, distribution and promotion - and why this is necessary.

## **MANAGEMENT 7107**

### **Cross-Cultural Management**

3 units - summer semester or trimester 1

Quota of 25

Prerequisite: MANAGEMENT 7087

Assessment: Attendance, participation, group and individual assignment, case study

Cross-cultural management is a fascinating field that studies a broad notion of culture as a system of shared beliefs, values, attitudes, customs and behaviours, and impacts on organisational life. Cultural differences can create numerous challenges in a workplace. Typical examples include managing employees and dealing with stakeholders of diverse cultural backgrounds; integrating organisational entities as a result of mergers and acquisitions; working in a local subsidiary of a foreign company; and establishing a branch of a local company overseas. The increase in cultural diversity in society, booming mergers and acquisitions activity, and unprecedented globalisation make cross-cultural management knowledge and skills essential for a successful managerial career in a modern organisation.

## **MANAGEMENT 7224**

### **Knowledge Management**

3 units - trimester 2

Prerequisite: MANAGEMENT 7087, MANAGEMENT 7100, MANAGEMENT 7104

Assessment: Case studies, projects and active participation in a market based simulation

The value of most organisations today greatly exceeds their net tangible assets. This course addresses contemporary issues in managing knowledge, intellectual capital and other intangible assets.

Beginning with a view that these intangibles are strategic assets, the course will introduce the fundamentals of managing knowledge and intellectual capital, understanding some of the measurement issues, processes and cycles involved in their management and the specific issues in managing knowledge based workers and the organisations in which they work. The course then turns to the strategic issues of creating value from flows in intangible assets and organisation structures to support knowledge and intellectual capital development leading to an examination of the management of knowledge intensive businesses. The course concludes with a review of specific application issues, global issues, application to the public sector and current developments in the field.

## **MANAGEMENT 7225**

### **Business Project (Consulting)**

3 units - trimester 1 or trimester 2 or trimester 3

Prerequisite: All 8 core MBA courses

Incompatible: Subject to availability of adequate supervision resources

Assessment: Written reports, presentation, client satisfaction and feedback

This course draws on the work undertaken in the core MBA courses. Projects may be undertaken by an individual student or by a team of 3-5 students who take on the role of consultant(s) to an organisation and analyse a real business problem or issue and produce recommendations.

Projects may be sourced by students or the AGSB. Each project will be allocated an academic project supervisor. Much of the time for this course will be in practical fieldwork or desk research. The project will conclude with a presentation by the student or student group, to members of the client organisation and the AGSB at which time a final written report will be given to the organisation.

## **MANAGEMENT 7226**

### **Competitive Business Strategy**

3 units - trimester 3

Prerequisite: MANAGEMENT 7044

Assumed Knowledge: all core MBA coursework

Assessment: Case analysis 30%, class participation 20%, group research report 50%

This course is designed to provide students with an understanding of the strategic implications of competitive interactions between organisations in a variety of market situations. It builds on the core strategic management course where the focus is on understanding the situation of the organisation itself at a particular point in time. In this course, the focus is on understanding the relationship between that organisation and its competitors, considering actions and reactions over an ongoing time period, primarily using longitudinal case studies as the vehicle for assessment of strategic behaviour.

## **MANAGEMENT 7227**

### **Current Issues in Management**

3 units - trimester 3

Prerequisite: MANAGEMENT 7100, MANAGEMENT 7104

Assessment: 4 x 2000 word papers

This course provides students with the opportunity to be briefly exposed to a variety of current areas of management which are of importance, but which cannot be included as whole courses in the core MBA. The course aims to give students the opportunity to choose electives, which deepen their knowledge in particular areas of interest to them in their own careers, and to ensure that they have some exposure to these important areas of management practice.

The issues covered will vary periodically to reflect changes in the issues of current importance. For instance, issues which may be covered could include legal responsibilities

in business, business data analysis, managing information technology and operations management.

## **MANAGEMENT 7228**

### **Family Business and SME Management**

3 units - trimester 3

Prerequisite: MANAGEMENT 7086

Assessment: 3000 word essay/case study 40%, business owner presentation evaluations 30%, group assignment 30%

The course aims to enhance our understanding of private sector businesses by concentrating on the most common organisational form, the small to medium enterprise (SME). It will explore the challenges of family owned and managed businesses using a systems approach integrating the family, the business, and ownership subsystems.

The course will explore the growth and professionalisation of the SME, and the implications of family control. Other topics include the interactions between family members and non-family working in the business, human resource management for the competitive SME, and governance issues. Business owners' presentations, including a site visit, will be an integral part of the course.

## **MANAGEMENT 7229**

### **Winning Organisations**

3 units - trimester 2

Prerequisite: MANAGEMENT 7044

Assumed Knowledge: All core MBA courses

Assessment: Class participation 20%, class presentation 20%, written organisational analysis 60%

This course considers the research findings in holistic studies of winning organisation practices. In particular the US studies of In Search of Excellence, Built to Last and Good to Great are contrasted with the recent Australian findings of The First XI. Collectively, the elements from these studies provide a framework for defining sustainable organisational excellence, for all types of organisations - listed companies, private companies, government organisations and not-for-profits.

Students will have the opportunity to apply the framework to their own organisation, or another, which they can source to compare their organisation's performance with that of winning organisations.

## **MANAGEMENT 7230**

### **Understanding Organisational Sustainability**

3 units - trimester 2

Prerequisite: MANAGEMENT 7081, MANAGEMENT 7087

Assumed Knowledge: MANAGEMENT 7100, MANAGEMENT 7101, MANAGEMENT 7103

Assessment: Class participation, individual and group assessments

Much is being said and written about corporate or organisational sustainability, and it seems likely that this topic will demand more and more attention from organisations, in both the private and public sectors. This course introduces students to conceptual and practical frameworks for understanding sustainability, in the context of the economic, social and natural environment

of organisations. First it examines various approaches to definition and measurement, and the conceptual challenges involved in thinking about sustainability. Then it explores some practical expressions of organisational sustainability and the change processes that underpin the pursuit of a sustaining organisation. Finally it invites students to create a vision of possibilities, for organisations in general, and for their own organisations in particular. The course will include a group project focussed on implementation of measures to enhance sustainability in a local organisation.

### **MANAGEMENT 7231** **Mergers & Acquisitions**

3 units - summer semester

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Prerequisite: MANAGEMENT 7100, MANAGEMENT 7101

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Assessment: Individual and group assessments; final exam

Managers are confronted by a rapidly changing competitive landscape. Abrupt changes such as globalization, deregulation, technology advances change the nature and rules of the game. Firms are continuously attempting to remain competitive in this turbulent context, either fighting to defend their competitive advantage or seeking to create new ones. Major strategies employed for these ends include Mergers and Acquisitions (M&As). These strategies can have major multi-level impacts. They affect how organizations compete or co-operate with the competition, how firms organize internally and how individual teams and executives achieve change. For these reasons M&As are important to examine.

The multi-level impact of these strategies, in terms of breadth, depth and complexity, lends their study to a multi-disciplinary rather than specialist approach. In this sense, the lens of strategic management is useful in providing coherence in approach, and in integrating other key disciplines such as finance, economics, organisational behaviour, psychology.

### **MANAGEMENT 7232** **Business Consulting**

3 units - trimester 3

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Prerequisite: MANAGEMENT 7086, MANAGEMENT 7100, MANAGEMENT 7087

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Assessment: Exam, written assignments, case study analyses, group or individual projects, class participation

This course is focussed on the enhancement of essential skills necessary to achieve success in the field of business consulting services. It is targeted at both those who aspire to or provide business advisory services to external clients and those who manage internal consulting projects within organisations. Students will learn how to identify business problems, gather and present business information, ask meaningful questions, analyse questionnaire results and provide support to business decision making. The course provides practical tools and techniques to help effectively facilitate meetings and workshops, successfully sell business advisory services and efficiently manage consulting projects. It looks into key aspects of managing a consulting practice and understanding of the consulting industry.

The course provides participants with an opportunity to advance their skills and knowledge through practical problem solving in specific consulting situations, such as strategy development, business case development, risk management, process reengineering, compliance reviews, and others.

With multiple case studies, exercises and facilitated discussions of real life experiences, this course aims to share a wealth of practical tools and methodologies developed through years of management and consulting experience.

### **MANAGEMENT 7233** **Statistical, Quantitative & Analytical Thinking**

3 units - trimester 2

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Available for Non-Award Study

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Prerequisite: MANAGEMENT 7086, MANAGEMENT 7100

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Assumed Knowledge: MANAGEMENT 7012 for students wanting to get the Six Sigma black belt

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Assessment: Assignments/presentations

A key feature of today's business environment is the need for managers to cope with an increasing amount of data and use it to support effective decision making. The complexity of operational and financial data found in most organisations, Balanced Scorecards, improvement methodologies such as Six Sigma, Supply Chain Management, Forecasting and Business Modelling techniques, all require managers to have sound quantitative skills in order to understand the current situation, solve problems, make decisions and develop strategies.

This course develops skills and expertise in the use of tools and techniques required to support the quantitative aspects of managerial effectiveness. In particular, this course helps students develop a "statistical thinking" mindset in the way they go about understanding and reacting to quantitative information. The course takes a pragmatic and application based approach and will feature a work-based project as well as many in class case studies, simulations and application exercises.

## **Marketing**

### **MARKETING 7005** **Marketing Principles (M)**

3 units - semester 1 or 2

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3 hour seminar per week

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Assessment: Assignments, exam as determined at first class

The course introduces a comprehensive range of professional marketing thought and action, in the framework of the marketing management process. The course introduces the marketing functions within profit and not-for-profit organisations and looks at the processes available to manage these organisational functions. Topics: the nature and purpose of marketing, the need for customer orientation, evaluating markets, targeting market opportunities, assessing buyer behaviour, the role of market information, products and services,

pricing, distribution and promotion. Students undertake a marketing audit of a firm as part of their assessment.

### **MARKETNG 7023 Consumer Behaviour (M)**

3 units - semester 1 or 2

2 lectures, 1 tutorial per week

Assumed Knowledge: MARKETNG 7005

Assessment: Assignments, exam as determined at first class

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.

### **MARKETNG 7024 International Marketing (M)**

3 units - semester 1 or 2

2 lectures, 1 tutorial per week

Assumed Knowledge: MARKETNG 7005 Marketing Principles (M) plus one other postgraduate marketing course

Assessment: Group work on case studies, individual report, major project, final exam as determined at first class

International marketing is of growing importance to policy makers and firms as the phenomenon described as globalisation is believed to create a convergence of cultures, political and economic systems. There is supporting and contradicting evidence for this proposition: that there is a congruence of economic and political systems, but cultures remain firmly rooted within nations and this is borne out by recent conflicts that appear to be culturally based. Further, international terrorism and natural disasters are creating risks and challenges for nations and their decision makers which require systematic analysis and risk reduction strategies. At the centre of all these issues is the consumer whose needs and wants the international marketing manager wants to understand so that firms can create marketing mixes that can match these. Therefore the international marketer has to understand the nature of these uncontrollable environmental variables and work within these to develop suitable marketing strategies to enter and operate within countries.

### **MARKETNG 7025 Marketing Communications (M)**

3 units - semester 1

2 lectures, 1 tutorial per week

Assumed Knowledge: MARKETNG 7005, MARKETNG 7023

Assessment: Assignments & exam as determined at first class

The objective of the course is to help students understand the principles and practices of marketing communications, involving tools used by marketers to inform consumers and to provide a managerial framework for integrated marketing communications planning. Topics: the role of integrated marketing communications, organising for advertising and promotion, consumer behaviour perspective, the communication process, promotional

objectives and budgets, creative strategy, media planning and strategy, broadcast/print & support media, direct marketing, sales promotions, PR and publicity, personal selling, international promotion, business-to-business promotions, and regulations and ethics.

### **MARKETNG 7026 Market Research & Planning (M)**

3 units - semester 2

2 lectures, 1 tutorial per week

Assumed Knowledge: MARKETNG 7005, MARKETNG 7023

Assessment: Assignments & exam as determined at first class

The course will assist students to understand the process by which market information is collected and analysed and to apply this understanding to the development of a marketing plan in response to a real life client problem. Topics: role of market research, the research process, measurements including univariate data analysis depth interviews and focus groups, bivariate data analysis, multivariate grouping procedures, surveys and questionnaire design, multivariate analysis with dependant variables, sample size, field operation and data processing, experiments, and reporting.

### **MARKETNG 7027 Brand Management (M)**

3 units - semester 1

3 hour seminar per week

Assumed Knowledge: At least 2 marketing specialisation courses

Assessment: Assignments & exam as determined at first class

The course builds on existing communications and consumer behaviour models in order to explore many of the issues facing a modern day brand manager. Topics: evaluation of brands, brands and their relationships with consumers, how to create brand equity and the tools required to manage equity over time.

### **MARKETNG 7028 E-Marketing (M)**

3 units - semester 1

3 hour seminar per week

Assumed Knowledge: At least 2 marketing specialisation courses

Assessment: Assignments & exam as determined at first class

This course explores the emerging role of technology, information systems and electronic communications for marketing practice. Students will explore and critique the potential of such technologies as the World Wide Web, databases and multimedia applications for marketing. Students will have hands-on experience with these applications. Topics: introduction to e-marketing, the Internet micro- and macro- environments, e-business models, ethical issues, electronic marketing strategy, e-CRM, e-service quality, measuring e-marketing effectiveness, online retail, and business-to-business Internet marketing.



## **MARKETNG 7030** **Marketing Ethics (M)**

3 units - semester 1 or 2

3 hour seminar per week

Assumed Knowledge: At least 2 marketing specialisation courses

Assessment: Case study analysis & development, group presentation, participation & exam

The course will assess marketing ethical decision-making processes, issues and organisational control mechanisms. Topics: Defining Marketing ethics, relevant theories to examine ethical questions, code of conducts and ethical guidelines, a stepwise ethical marketing decision process, ethics in relation to marketing decisions: market research, segmentation, product, price, distribution, advertising and marketing communications and international marketing.

## **MARKETNG 7031** **Relationship Marketing (M)**

3 units - semester 2

3 hour seminar per week

Assumed Knowledge: At least 2 marketing specialisation courses

Assessment: Assignments & exam as determined at first class

The course examines the processes and outcomes of business interaction with consumers and other businesses to achieve long-term relational exchanges. Topics: interactions and relationships in consumer and business markets, the consumer as an active channel member, managing relationships with customers, business marketing and networks, managing business relationships, technology and relationships, building a relationship offering, transferring the offering, valuing relationships by price costs and value, developing a relationship strategy, relationship termination.

## **MARKETNG 7032** **Strategic Marketing (M)**

3 units - semester 1 or 2

3 hour seminar per week

Assumed Knowledge: capstone course for M Com (Marketing) pathway - must be taken in final semester of study.

Assessment: Assignments & exam as determined at first class

The course examines the development and implementation of marketing strategy by providing a framework from which to identify and evaluate strategic options and programs. Topics: forecasting and contextual possibilities, product-market definition, relationships with channels of distribution, relationships with customers, competitive analysis, financial models for marketing strategists, portfolio models, strategic assessment of offerings, marketing strategy implementation systems. This is a capstone subject therefore students need to have a strong foundation of marketing knowledge gained from a range of marketing subjects to take this course.

## **MARKETNG 7033** **New Product Development and Innovation (M)**

3 units - semester 2

3 hours seminar per week

Assumed Knowledge: At least 2 marketing specialist courses

Assessment: Assignments & exam as determined at first class

The objective of this course is to equip students to manage and coordinate elements involved in innovation and new product development from a marketing perspective. A key part of the learning in this course will be based on a real client project. Students undertaking this course will develop these skills with a product development and commercialisation plan which will include identification of market opportunities and path to market. In developing this plan, the student will gain insights into the management of interfaces between product developers, designers, venture capitalists and other stakeholders critical to the innovation process. Main topics include: New Product Development (NPD), the role of market research and design for NPD, managing a NPD team, innovation and operations management, management of R&D projects, technology and knowledge, gaining market value from innovation, managing intellectual property.

## **MARKETNG 7103** **Advanced Theory in Marketing (M)**

3 units - semester 1 or 2

Assessment: Assignment 60%, Participation 60%, Class Presentations 20%

This course is designed to fulfil the following student learning objectives: Gain an indepth understanding of the main theoretical and research perspectives that have contributed to the knowledge of marketing; Investigate some of the important debates to which theorising about these different issues has given rise; Explore the implications of these debates for both marketing research and marketing practice; Become familiar with academic publications in marketing; Develop an ability to critically analyse and evaluate such publications; Improve oral and written communication skills.

Generally the course aims to give students a greater familiarity with methodologies used in marketing research as well as the ability to assess the validity of findings described in the current or recent marketing literature.

Topics will arise throughout the course from theoretical and research perspectives that have influenced (and continue to influence) scholarly thinking about issues of central importance to the actual practice of marketing.

This is essentially a readings-based course in which students will critically review scholarly research articles each week in advance. Participation marks will be awarded for demonstration of effective reading and understanding the arguments presented.

# Mathematics

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## Applied Mathematics

### APP MTH 7007 Masters Applied Mathematics Project

6 units - semester 1 or 2

Further advanced work in Applied Mathematics as determined by the Head of Applied Mathematics.

### APP MTH 7026 Communication Network Design

3 units - semester 1

30 hours lecture, tutorials

Available for Non-Award Study

Assumed Knowledge: basic concepts of discrete optimisation such as APP MTH 2008, APP MTH 3014, 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 7044 Applied Mathematics Topic C

3 units - semester 1 or 2

Available for Non-Award Study

Further advanced work in Applied Mathematics as determined by the Head of Applied Mathematics.

### APP MTH 7045 Applied Mathematics Topic B

3 units - semester 1 or 2

Further advanced work in Applied Mathematics as determined by the Head of Applied Mathematics.

### APP MTH 7048 Applied Mathematics Topic A

3 units - semester 1 or 2

Available for Non-Award Study

Further advanced work in Applied Mathematics as determined by the Head of Applied Mathematics.

### APP MTH 7049 Applied Mathematics Topic D

3 units - semester 1 or 2

Further advanced work in Applied Mathematics as determined by the Head of Applied Mathematics.

### APP MTH 7052 Computational Fluid Dynamics

3 units - semester 1

30 hours lectures, tutorials

Available for Non-Award Study

Assumed Knowledge: Numerical Analysis or Numerical Methods such as APP MTH 2009, 2004 or 2104 and Fluid Mechanics such as APP MTH 3002

Assessment: 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 7054 System Modelling and Simulation

3 units - semester 1

30 hours lectures, tutorials

Available for Non-Award Study

Assumed Knowledge: Basic statistics such as STATS 2004

Assessment: project work 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 manufacturing, telecommunications and transport will be investigated. At the end of this course, students will be capable of identifying practical situations where simulation modelling can be helpful, reporting to management on how they would undertake such a project, collecting relevant data, building and validating a model, analysing the output and reporting their findings to management.

Students are also expected to complete a project in groups of two or three, to write a concise summary of what they have done and to report their findings to the class.

### APP MTH 7056 Telecommunications Systems Modelling

3 units - semester 2

36 hours lectures and tutorial

Available for Non-Award Study

Prerequisite: Pass in MATHS 1012 or MATHS 2004

Assumed Knowledge: APP MTH 2008 or 2103

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 complex models of telecommunication systems.

### **APP MTH 7057** **Special Studies in Engineering Mathematics**

3 units - semester 1 or 2

36 hours lectures, tutorials

Available for Non-Award Study

Further advanced work in Applied Mathematics as determined by the Head of Applied Mathematics.

### **APP MTH 7064** **Computational Mathematics**

3 units - semester 1

36 hours lectures, tutorials

Available for Non-Award Study

Prerequisite: Pass in MATHS 1012 or MATHS 2004

Assumed Knowledge: Knowledge of Diff equations such as APP MTH 2000 or MATHS 2102, computer programming language such as Matlab, Fortran or C

Assessment: Written & computing assignments 20%, final exam 80%

Mathematical models of the real world generally give rise to problems that cannot be solved exactly by hand, and an approximate numerical solution must be found instead. Computers are essential for solving important but otherwise intractable mathematical problems, from weather prediction to the earthquake response of buildings. The ability to solve problems numerically is an important tool in any mathematician's or engineer's toolkit. It is also important to be able to assess the likely accuracy (or otherwise) of the numerical solutions that you compute: computers readily generate garbage, yet humans have a tendency to believe computer-generated results, regardless. This course develops students' knowledge of appropriate numerical techniques for tackling mathematical problems and assessing the accuracy of the numerical results that are obtained. It provides methods appropriate to common mathematical models: algebraic equations, ordinary and partial differential equations and integrals. It discusses causes of numerical errors and ways to estimate the effects of those errors on the computed solution to a problem. It also gives practice in writing computer codes to implement effective numerical algorithms.

### **APP MTH 7065** **Applied Probability**

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 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 7066** **Life Contingencies**

3 units - not offered in 2009

36 hours lectures, tutorials

Available for Non-Award Study

Prerequisite: MATHS 1012, Pass in MATHS 1000A/B & at least one of STATS 1000, ECON 1008, MATHS 1008; STATS 2001, STATS 2004, APP MTH 2009, APPL MTH 2010

Assumed Knowledge: MATHS 3014 or CORPFIN 2006 or ECON 2008

Assessment: Written assignments 10%, final exam 90%

Life tables and force of mortality; select, aggregate and ultimate mortality tables; annuities immediate and due, assurances and premiums. Relations between mortality functions; policy values, reserves and mortality profit. Multi-decrement tables and associated single-decrement, combined tables and monetary functions. Both practical and theoretical aspects of the above will be discussed.

### **APP MTH 7067** **Mathematical Programming**

3 units - semester 2

36 hours lectures, tutorials

Available for Non-Award Study

Prerequisite: Pass in MATHS 1012 or MATHS 2004

Assumed Knowledge: Knowledge of duality theory as in APP MTH 2008 or 2105

Assessment: 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 7068** **Industrial Mathematics**

3 units - semester 2

36 hours lectures, tutorials

Available for Non-Award Study

Prerequisite: Pass in MATHS 1012 or MATHS 2004

Assumed Knowledge: Knowledge of Diff equations as in APP MTH 2000 or MATHS 2102

Assessment: Assignments 15%, final exam 85%

Mathematical modelling is the art of representing a real-world process by mathematical equations, and investigating this 'mathematical model' to obtain better understanding of the process. Differential-equation models have been recognised for some decades as a valuable tool in the development of modern industrial technologies and processes. In recent times they have been successfully used for problems arising in medicine

and the biological sciences, an exciting and growing area of mathematical application. Industrial problems which might be modelled with differential equations include spontaneous ignition, contaminant dispersion, desalination, casting of sheet steel, and solar heating; medical/biological problems include drug delivery, blood oxygenation, dialysis, and growth of tumours.

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 7069** **Variational Methods and Optimal Control**

3 units - Not offered in 2009

36 hours lectures, tutorials

Available for Non-Award Study

Prerequisite: Pass in MATHS 1012 or MATHS 2004

Assumed Knowledge: Knowledge of Diff equations as in APP MTH 2000 or MATHS 2102

Assessment: Assignments 15%, final exam 85%

Many problems of optimisation and control in the sciences and engineering seek to find the shape of a curve or surface satisfying certain conditions so as to maximise or minimise some quantity. For example, shape a yacht hull so as to minimise fluid drag. Variational methods involve an extension of calculus techniques to handle such problems. This course develops an appropriate methodology, illustrated by a variety of physical and engineering problems.

### **APP MTH 7070** **Financial Modelling**

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

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 7071** **Differential Equations**

3 units - semester 1

36 hours lectures, tutorials

Available for Non-Award Study

Prerequisite: Pass in MATHS 1012 or MATHS 2004

Assumed Knowledge: Knowledge of Diff equations such as APP MTH 2000 or MATHS 2102

Assessment: Written assignments 10%, final exam 90%

Differential equations describe a wide range of practical problems in such areas as biology, physics, engineering, economics and finance. This course will provide students with the techniques required to solve the classes of ordinary and partial differential equations which commonly occur in applications.

The course will include discussion of (i) methods for the solution of initial value problems for systems of first order linear and non-linear ordinary differential equations; (ii) techniques for the solution of two point boundary value problems for second order linear ordinary differential equations with variable coefficients; (iii) classification of partial differential equations and the solution of boundary value problems for these equations using the methods of (a) reduction to ordinary differential equations by use of separation of variables, (b) integral transforms, (c) characteristics.

### **APP MTH 7072** **Optimisation**

3 units - semester 1

36 hour lectures, tutorials

Available for Non-Award Study

Assumed Knowledge: Linear programming as in APP MTH 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 Annealing or Genetic algorithms; constrained optimisation, including Kuhn-Tucker conditions and the Gradient Projection Method. Other topics such as penalty methods, quasi-convexity, etc, will be covered as time permits.

### **APP MTH 7074** **Modelling Telecommunication Traffic**

3 units - Not offered in 2008

30 hours lectures, tutorials

Available for Non-Award Study

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 7075 Fluid Mechanics**

3 units - semester 2

36 hours lectures and tutorials

Available for Non-Award Study

Prerequisite: Pass in MATHS 1012 or MATHS 2004

Assumed Knowledge: Knowledge of Diff equations such as in APP MTH 2000 or MATHS 2102, and Vector analysis as in APP MTH 2002 or MATHS 2102

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 7076 Mathematical Biology**

3 units - Not offered in 2009

36 hours lectures, tutorials

Available for Non-Award Study

Prerequisite: Pass in MATHS 1012 or MATHS 2004

Assumed Knowledge: Diff equations such as in APP MTH 2000 or Maths 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 7078 Information Theory**

3 units - semester 1

30 hours lectures, tutorials

Available for Non-Award Study

Assessment: Assignments 20%, final exam 80%

Uncertainty, Shannon's uniqueness theorem, properties of uncertainty, information, noiseless coding, unique decipherability, instantaneous codes, Huffman constructions. Kraft's theorem, McMillan's theorem, Shannon's first coding theorem, ideal observer and maximum likelihood decision schemes, fundamental theorem of coding, stationary sources, uncertainty of a source, Markov sources, unifilar sources, uncertainty of a state. The asymptotic equipartition property. Error correcting codes, parity check for group codes, decoding parity check codes, cyclic codes, feedback shift registers, Bose-Chaudhuri-Hocquenghem codes.

### **APP MTH 7079 Waves**

3 units - semester 1

36 hours lectures, tutorials

Available for Non-Award Study

Prerequisite: Pass in MATHS 1012 or MATHS 2004

Assumed Knowledge: Knowledge of Diff equations such as in APP MTH 2000 or MATHS 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.

## APP MTH 7080A/B Masters Project

12 units - full year

480 hours

Assessment: Evaluation of performance including: research thesis, literature review & oral presentations

Students will work in small groups on a research thesis in the field of telecommunications under the supervision of an academic staff member.

## APP MTH 7081 Mathematics of Finance

2 units - Not offered in 2008

2 lectures per week, tutorial every 3 weeks

Prerequisite: Pass in MATHS 1012 or MATHS 2004

Assessment: 2 hour exam, small percentage for assignments

Theory of interest rates. Annuities. Cash flows. Valuation of securities. Loan repayments, Bonds: Prices and Yields, Stochastic interest rate models.

## APP MTH 7105 Optimisation and Operations Research

3 units - semester 2

30 hrs lectures, 6 hrs practical, 6 hrs tutorials

Prerequisite: MATHS 1012 or MATHS 2004

Incompatible: Cannot be presented with APP MTH 2008 or APP MTH 2105

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.

## Mathematics

### MATHS 7008A/B Math. Signal & Information Processing Project

6 units - full year

Those students undertaking the full Masters award may wish to complete a project on a specialised topic of their choice. A project supervisor will be appointed to each student.

### MATHS 7100 Real Analysis

3 units - semester 2

36 hrs lectures, 6 hrs tutorial

Prerequisite: MATHS 1012 or MATHS 2004

Incompatible: Cannot be presented with PURE MTH 2003, PURE MTH 3017 or Real Analysis (Pre 2001)

Assessment: Assignments, and/or practicals, Final 3 hour 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 7101 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: Cannot be presented with 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 7102 Differential Equations**

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 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 7103 Probability & Statistics**

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 STATS 2002, 2003, 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 7104 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 7201 Engineering Mathematics I**

3 units - semester 1

36 hrs lectures, 6 hours tutorials

Prerequisite: MATHS 1012 or MATHS 2004

Incompatible: Cannot be presented with 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 7202 Engineering Mathematics II**

3 units - semester 2

36 hrs lectures, 6 hrs tutorials

Prerequisite: MATHS 1012 or MATHS 2004

Assumed Knowledge: MATHS 2102 or APP MTH 2000 or APP MTH 2007

Incompatible: Cannot be presented with 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 Mathematics

### PURE MTH 7002 Pure Mathematics Topic B

3 units - semester 1 or 2

Further advanced work in Pure Mathematics as determined by the Head of Pure Mathematics.

### PURE MTH 7023 Pure Mathematics Topic D

3 units - semester 1 or 2

Further advanced work in Pure Mathematics as determined by the Head of Pure Mathematics.

### PURE MTH 7038 Pure Mathematics Topic A

3 units - semester 1 or 2

Further advanced work in Pure Mathematics as determined by the Head of Pure Mathematics.

### PURE MTH 7047 Pure Mathematics Topic C

3 units - semester 1 or 2

Further advanced work in Pure Mathematics as determined by the Head of Pure Mathematics.

### PURE MTH 7050 Fields and Geometry

3 units - semester 2

5 lectures, 1 tutorial per fortnight

Available for Non-Award Study

Prerequisite: MATHS 1012 or MATHS 2004

Assumed Knowledge: PURE MTH 2002

Incompatible: Cannot be counted with PURE MTH 3004

Assessment: 3 hour exam, small percentages may be allocated to class exercises &/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 7051 Fractal Geometry

3 units - not offered in 2008

5 lectures per week, tutorial every 3 weeks - some may be computing tutorials using packages

Available for Non-Award Study

Prerequisite: Pass in MATHS 1012 or MATHS 2004

Assessment: 3 hour exam, small percentage for class exercises

A survey of fractal geometry including classical fractals, fractal dimension, encoding imagery modelling nature, chaos. Feigenbaum diagram, Mandelbrot and Julia sets. Students have opportunity to construct their own fractals.

### PURE MTH 7053 Number Theory

3 units - Not offered in 2009

5 lectures a week; tutorial every 3 weeks

Available for Non-Award Study

Prerequisite: Pass in MATHS 1012 or MATHS 2004

Assessment: 2 hour exam, small percentage may be allocated for class exercises &/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 7054 Complex Analysis

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 2006, PURE MTH 2001

Assessment: 3 hour exam, small percentage for class exercises &/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.

### PURE MTH 7055 Topology and Analysis

3 units - semester 1

5 lectures, 1 tutorial per fortnight

Available for Non-Award Study

Prerequisite: Pass in MATHS 1012 or MATHS 2004

Incompatible: Cannot be counted with PURE MTH 3013

Assessment: 3 hour exam, small percentage may be allocated to class exercises and/or tutorials

Sets, functions, metric spaces, compactness and completeness. Banach fixed point theorem and applications, uniform continuity. General topological spaces. Introductory functional analysis: normed linear



spaces, topological duals. Convexity and Hahn-Banach theorems. Hilbert spaces, operators on Hilbert spaces, the Spectral theorem.

### **PURE MTH 7059 Groups and Rings**

3 units - semester 1

5 lectures, 1 tutorial per fortnight

Available for Non-Award Study

Prerequisite: Pass in MATHS 1012 or MATHS 2004

Assumed Knowledge: PURE MTH 2002

Incompatible: Cannot be presented with PURE MTH 3000 or 3011

Assessment: 3 hour exam, small percentage may be allocated to class exercises and/or tutorials

Groups, subgroups, factor groups, homomorphism and isomorphism theorems. Finitely generated abelian groups. Conjugacy. Cayley's and Sylow's theorems. Rings, ideals, factor rings and homomorphisms. Polynomials. Unique factorisation. Euclidean domains, Gaussian integers.

### **PURE MTH 7061 Methods of Modern Mathematics**

3 units - Not offered in 2009

5 lectures, 1 tutorial per fortnight

Prerequisite: Pass in MATHS 1012 or MATHS 2004

Assumed Knowledge: PURE MTH 3002

Assessment: 3 hour exam, small percentage may be allocated for class exercises and/or tutorials

Vector spaces, linear operators and functionals, semigroups of operators. Classical normed spaces, Fourier series, generalised functions. Heat and Wave equations: classical, variational and generalised solutions, semigroup approach. Illustrative applications in mathematical physics, financial mathematics and quantitative risk analysis.

### **PURE MTH 7064 Logic and Computability**

3 units - semester 1

5 lectures, 1 tutorial per fortnight

Prerequisite: Pass in MATHS 1012 or MATHS 2004 or MATHS 1008

Incompatible: Cannot be counted with PURE MTH 3010

Assessment: 3 hour exam, small percentage may be allocated to class exercises and/or tutorials

Mathematical foundations. Propositional calculus, first order theories, interpretations and models. Godel's completeness theorem for predicate calculus. Computability: Turing machines, recursive functions and the halting problem. Undecidability of predicate calculus. Godel's theorem for elementary number theory.

### **PURE MTH 7069 Pure Mathematics Diploma Project**

3 units - semester 1 or 2

Further advanced work in Pure Mathematics as determined by the Head of Pure Mathematics.

### **PURE MTH 7070 Pure Mathematics Diploma Project**

6 units - semester 1 or 2

Further advanced work in Pure Mathematics as determined by the Head of Pure Mathematics.

### **PURE MTH 7071 Integration and Analysis III**

3 units - semester 2

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 7106 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.

### **PURE MTH 7107 Coding and Cryptology III**

3 units - semester 2

5 lectures, 1 tutorial per fortnight

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: cannot be counted with PURE MTH 3006 or 3018

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.

## Statistics

### STATS 7004

#### Statistics Topic A

3 units - semester 1 or 2

Further advanced work in Statistics as determined by the Head of Statistics.

### STATS 7008

#### Statistics Topic D

3 units - semester 1 or 2

Further advanced work in Statistics as determined by the Head of Statistics.

### STATS 7014

#### Statistics Topic B

3 units - semester 1 or 2

Further advanced work in Statistics as determined by the Head of Statistics.

### STATS 7016

#### Statistics Topic C

3 units - semester 1 or 2

Further advanced work in Statistics as determined by the Head of Statistics.

### STATS 7053

#### Statistics in Engineering

3 units - semester 2

3 hours per week, including 2 hours lectures

Available for Non-Award Study

Prerequisite: Level I Maths or equiv, intro. statistics course or equiv background reading

Assessment: Assignments 30%, Final exam 70%

An introduction to the theory and practice of probability and statistics in the context of engineering, with an emphasis on modelling. It will provide students with experience in using Excel and a high level statistical package such as R for statistical analysis.

Topics will be selected from: revision of probability, descriptive statistics, binomial, uniform, Gaussian (normal) distributions and expectation. Covariance, correlation, linear combinations of random variables, sampling distribution of the mean, confidence intervals for means and proportions. Further probability - Bayes' theorem, decision trees, Poisson processes, and the Poisson and exponential distributions, Markov processes. Further distributions- Moment generating functions. Transformation of variables. Weibull in the context of reliability, Gumbel and generalised extreme value distributions in the context of flood prediction. Random number generation. Multivariate distribution.- Bivariate distribution, marginal and conditional distribution. Approximate mean and variance of function of random variables. Bivariate normal distribution, multivariate normal distribution, bivariate Gumbel distribution, Gibbs sampler. SPC - Shewhart and CUSUM charts. Regression

of response on a single predictor. Log-regression. Multiple regression. Logistic regression. Design of experiments. Simple designed experiments paired and unpaired comparison of means, approximate comparison of standard deviations and proportions. Factorial experiments and half factorial design. central composite design. Response surface analysis. Taguchi's contribution to experimental design Time series - Identification of trend and seasonal effects. Correlogram. Autoregressive processes of order 1 and 2. Forecasting and simulation

### STATS 7054

#### Statistical Modelling

3 units - semester 1

5 lectures, 1 hour tutorial/practical every 2 weeks

Available for Non-Award Study

Prerequisite: Passes in APP MTH 2009, or APP MTH 2010, MATHS 1012 or MATHS 2004, one of STATS 1000, STATS 1004, STATS 2004

Assumed Knowledge: At least one of STATS 2002, 2003, 2011 or 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 7055

#### Bioinformatics

3 units - not offered in 2009

3 lectures, 1 hour tutorial/practical every week

Available for Non-Award Study

Prerequisite: Passes in APP MTH 2009, or APP MTH 2010, MATHS 1012 or MATHS 2004, one of STATS 1000, STATS 1004, STATS 2001, STATS 2004

Assumed Knowledge: Statistical background such as in any Level II course

Assessment: 3 hour exam, assignments

This course provides students with knowledge and skills in statistical bioinformatics. Topics covered include basic notions and terminology from biology and genetics; gene expression analysis; two-colour microarrays: image processing, data pre-processing and normalisation; empirical and graphical methods for 'low-level' analysis of microarray data; density smoothing and lowess curves. Hypothesis testing: non-parametric and permutation tests; bootstrap estimation and testing; the multiple-testing problem: step-down methods, computer-intensive methods, false discovery rates; the Bayesian approach to hypothesis testing and estimation. Discriminant analysis and cluster analysis. Biological sequence analysis; Poisson processes and Markov chains; the analysis of one DNA sequence; the analysis of multiple DNA or protein sequences; random walks and sequential analysis theory leading to BLAST; Hidden Markov Models (HMM) and applications.

## STATS 7056

### Biostatistics

3 units - semester 2

2 lectures, 1 hour tutorial or practical, every 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, 2003, 2011 or 2107

Assessment: 3 hour exam, assignment

This course provides students with fundamental knowledge of the design and analysis of clinical trials and epidemiological studies, and important methods for the analysis of biostatistical data. Topics covered include the role of randomisation and ethical considerations; Phase I to Phase IV trials; the Data and Safety Monitoring Board; methods of randomisation: unrestricted and restricted randomisation, random permuted blocks, biased coin designs, stratification, minimisation; trial size: fixed, sequential and group sequential trials; factorial trials, crossover trials and equivalence trials. Epidemiology: cohort, case-control and related epidemiological studies; models for disease association: relative risk, odds ratio, attributable risk. Diagnostic tests and screening; meta-analysis; survival analysis.

## STATS 7057

### Sampling Theory & Practice

3 units - Not offered in 2009

2 lectures, 1 hour tutorial or practical, every week

Available for Non-Award Study

Prerequisite: Passes in APP MTH 2009, or APP MTH 2010, MATHS 1012 or MATHS 2004, one of STATS 1000, STATS 1004, STATS 2004

Assumed Knowledge: At least one of STATS 2002, 2003, 2011 or 2107

Assessment: 3 hour exam, class exercises, practicals, project work

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 7058

### Time Series

3 units - semester 2

2 lectures per week, 1 tutorial and 1 hour practical every 3 weeks

Available for Non-Award Study

Prerequisite: Passes in APP MTH 2009, or APP MTH 2010, MATHS 1012 or MATHS 2004, one of STATS 1000, STATS 1004, STATS 2004

Assumed Knowledge: At least one of STATS 2002, 2003, 2011 or 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 7059

### Mathematical Statistics

3 units - semester 1

5 lectures, 1 hour tutorial every two 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, project work

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 7061

### Statistical Analysis

3 units - semester 1

1 week intensive, 22 lectures, 5 tutorials, 5 practicals

Available for Non-Award Study

Prerequisite: CgENVENG 7043

Assumed Knowledge: elementary statistics (mean, variance, histogram)

Assessment: Formal written exam 50%, coursework 50%

General introductory course on mathematical statistics. Summary statistics and statistical inference. Histograms and sample statistics. Probability and probability distributions. Detailed coverage of Gaussian (normal) distribution and the lognormal distribution. Sampling distributions and tests of significance. Analysis of variance. Multiple variables with emphasis on the bivariate case. Correlation and regression. Bayes' theorem and

introduction to Bayesian statistics. Gy's sampling theory for the sampling of particulate materials.

### **STATS 7062 Multivariate Geostatistics**

3 units - semester 2

22 lectures, 5 tutorials, 5 practicals

Available for Non-Award Study

Prerequisite: C&ENVENG 7056, STATS 7061

Assumed Knowledge: Detailed understanding of linear geostatistics

Assessment: Coursework 50%, formal written exam 50%

Review of matrix algebra, eigenvalues and eigenvectors. Principal Components Analysis. Multivariate regression. Kriging spatial components; filtering spatial components. Multivariate geostatistical models. Co-kriging and co-kriging variances. Comparison of co-kriging and kriging. Kriging with an external drift. Collocated kriging. Factorial co-kriging.

### **STATS 7065A/B Statistics Diploma Project**

6 units - full year

Syllabus details to be advised.

### **STATS 7069 Statistics Topic E**

3 units - semester 1 or 2

Further advanced work in Statistics as determined by the Head of Statistics.

### **STATS 7070 Statistics Topic F**

3 units - semester 1 or 2

Further advanced work in Statistics as determined by the Head of Statistics.

### **STATS 7071 Statistics Diploma Project**

3 units - semester 1 or 2

Syllabus details to be advised.

### **STATS 7073 Industrial Statistics**

2 units - semester 1

2 lectures per week, 1 hour tutorial every 2 weeks

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: 3 hour exam, class exercises, practicals, project work

Reliability; definitions, types of failure, confidence levels, mtf concepts, predication of reliability from life test data. Quality control and assurance: definition of quality, data presentation, quality control methods. Total quality management: measurement and audit methods, Quality improvement.

### **STATS 7074 Statistics Diploma Project**

6 units - semester 1 or 2

Syllabus details to be advised.

### **STATS 7107 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 or STATS 2107

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.

## **Music**

### **MUSPED 6001 Pedagogy Seminar IV**

6 units - semester 1 or 2

2 hour seminar per week/12 weeks

Assessment: Portfolio of annotated teaching materials 50%, 3 x 1000 word written assignments or equiv 50%

An initial ungraded but required bibliographic study will be followed by seminars focusing on teaching techniques and materials for pupils of various ages and levels of musical development. Consideration will be given to the development of pupils' aural acuity, general musicianship, and learning in a variety of genres and modes (including group and laboratory situations, the technology environment, preparation for examinations, competitions and recitals). Technical, stylistic and interpretive matters covering a wide variety of styles will be considered.

## **MUSPED 6002** **Pedagogy Practicum IV**

6 units - semester 1 or 2

1.5 hour workshop per week/4 weeks, 3 hours teaching practice/  
co-teaching/observation per week/12 weeks

Assessment: Teaching practice, co-teaching, observation 50%,  
teaching log 50%

Teaching observation, co-teaching and one teaching project with defined aims and duration will be undertaken within teaching programs approved by the Program Convenor. These activities will be monitored during regular workshops and through a written Teaching Log outlining the candidate's implementation and evaluation of the tasks undertaken.

## **MUSPED 7001** **Pedagogy Seminar V**

6 units - semester 1 or 2

2 hour seminar per week/12 weeks

Assessment: Portfolio of annotated teaching materials 50%, 2500  
word seminar paper 50%

Seminars will focus on contextual practices that underpin and inform instrumental teaching. The development of the specialism, professional and business issues, historical contexts, regional and cultural matters will be addressed, together with related investigations in child development and educational psychology.

## **MUSPED 7002** **Pedagogy Practicum V**

6 units - semester 1 or 2

1.5 hour workshop per week/4 weeks; 3 hours teaching practice/  
co-teaching/observation assessment per week/12 weeks

Assessment: Teaching practice, co-teaching, observation 50%,  
written curricula, diagnoses & evaluations 50%

Teaching, observation, co-teaching and two major teaching projects with defined aims and duration will be undertaken within teaching programs approved by the Program Convenor. Each project will comprise a written curriculum, teaching implementation, written diagnosis and evaluation. Assessment tools for teaching practice will include video recordings as well as live scenarios. These activities will be monitored during regular workshops.

## **PERF 6008A/B** **Major Recital IV**

12 units - full year

All recital projects supported by 1 hour 1:1 tuition per week for 15  
weeks, workshop 1.5 hours per week for 5 weeks

Prerequisite: Credit or above in appropriate Level III performance  
course or audition or both

Assessment: 65-minute public recital

A program of works in the repertoire of the instrument studied. Repertoire may include solo works, chamber music, orchestral material, concerti, accompaniment etc. Recital programs are subject to approval and details must be submitted within the first 6 weeks of the program.

## **PERF 6015A/B** **Minor Recital IV**

6 units - full year

All recital projects supported by 1 hour 1:1 tuition per week for 15  
weeks, workshop 1.5 hours per week for 5 weeks

Assessment: 35-minute public recital

A program of works in the repertoire of the instrument studied. Repertoire may include solo works, chamber music, orchestral material, concerti, accompaniment etc. Piano Performance and Pedagogy candidates should select works of pedagogical significance from a stylistic and /or historical perspective. It is expected these will comprise works which encourage developing technical and musical skills at intermediate to advanced levels such as JS Bach's Sinfonias and Preludes and Fugues, Sonatas of Classical Period, shorter descriptive solos of the Romantic Period, Bartok's Mikrokosmos, etc. Recital programs are subject to approval and details must be submitted within the first 6 weeks of the program.

## **PERF 6016A/B** **Negotiated Project IV**

6 units - full year

1 hour of 1:1 tuition per week for 15 weeks

Restriction: Conservatorium students in coursework Graduate  
Diploma or Masters program

Assessment: 30 minute lecture-demonstration

A course intended to allow candidates to select an activity that complements their major study. Piano Performance and Pedagogy candidates should present a 30-minute lecture/ demonstration of pedagogical literature. It is expected this will comprise works which assist technical and musical growth in pupils from elementary to intermediate levels such as the Classical Sonatinas and Studies of Clementi, Kuhlau, Bergmuller and Diabelli, and educational works by Swinestead, Kabalevsky, Gillock and Vandall.

# **Nursing**

## **NURSING 5101HO** **Apheresis Nursing I**

6 units - semester 1 or 2

Flexible learning mode

Restriction: Grad.Cert.Nursing Science students only

Assessment: Assignment, tutorial presentation/synopsis, case study  
- students must pass each component of course

This course will examine nursing and medical science underpinning therapeutic and donor apheresis. Topics will include vascular access, pharmacology in apheresis, principles of basic haematology, coagulation, the ABO/Rh system and immunology. Basic pathophysiology of diseases treated by therapeutic apheresis will be covered. Students will also examine the principles of therapeutic apheresis including plasma exchange, neurological and metabolic disorders as well as haematological disorders. This course will be studied by the flexible learning mode.

## **NURSING 5102HO** **Apheresis Nursing II**

6 units - semester 1 or 2

Flexible learning mode

Restriction: Grad.Cert. Nursing Science students only

Assessment: Poster, tutorial presentation/synopsis, case study - students must pass each component of course

This course will examine apheresis procedures with a focus on patient/donor centred issues. Topics will include red cell exchange, cyto-reduction; donor selection and management, patient care including care of paediatric patients, common complications, validation of procedures and processes, legal and professional issues.

## **NURSING 5103HO** **Hyperbaric Nursing II**

6 units - semester 1 or 2

Flexible learning mode

Restriction: Grad.Cert. Nursing Science students only

Assessment: 2000 word mid term assignment 25%, tutorial presentation with full text narrative (2000 word equiv) 25%, 3500 word essay 50%

This course will build on the topics considered in hyperbaric Nursing I and will be studied by the flexible learning mode. Topics will include safety issues relating to hyperbaric nursing and advanced clinical issues such as unit management.

## **NURSING 5104HO** **Microbiology and Epidemiology**

6 units - semester 1 or 2

Flexible learning mode

Restriction: Grad.Cert. Nursing Science students only

Assessment: 3000 word study portfolio 50%, 1500 word essay 30%, course workbook 20% - students must achieve a pass for entire course

This course will build on the student's knowledge of basic microbiology and will consider the epidemiology of common infectious diseases seen in the Australian population. The role of the infection control nurse will be considered in relation to the epidemiological research, education and disease surveillance.

## **NURSING 5105HO** **Principles and Practices of Retrieval Nursing**

6 units - semester 1

12 x 2 hour lectures or via flexible learning mode

Restriction: Grad.Cert. Nursing Science students only

Assessment: 3000 word essay 50%, Case presentation & synopsis 50%, clinical skills Pass/Fail, clinically supervise retrieval mission Pass/Fail - students must pass each component

This course will present the principles of retrieval and the physical and psychosocial needs of patients. Topics will include anatomy, physiology, psychosocial care, nursing care of retrieval patients and aeronautical medicine. International repatriation and retrieval of patients requiring hyperbaric treatment will also be considered. Students will be required to participate in supervised field experience in a level 3 intensive care unit for 150 hours.

## **NURSING 5106HO** **Trauma Nursing**

6 units - semester 2

13 x 3 hour lectures

Restriction: Grad.Cert. Nursing Science students only

Prerequisite: CLIN NUR 5105HO

Assessment: 3000 word essay 50%, case presentation & synopsis 50%, clinical skills pass/fail, clinically supervise retrieval mission pass/fail - students must pass each component

This course will examine nursing and medical science in relation to trauma, the principles of trauma nursing and the physical and psychosocial needs of those who experience trauma. Topics will include anatomy, physiology, psychosocial care, nursing care of trauma patients, principles of early management of severe trauma (EMST) and the teaching/learning process in patient education. Students will be required to participate in supervised field experience in a level 3 ICU for 150 hours and in addition participate as an active team member in a minimum of 5 retrievals.

## **NURSING 5109HO** **An Introduction to Evidence Based Health Care**

6 units - semester 1 or 2

Flexible learning mode

Assessment: 2000 word formulation of clinical question, 2000 word types of evidence, 3500 word development of search strategy

This course will introduce the concept of evidence based practice. Topics will include the history of Evidence Based Health Care and constructing a question (topic identification). Students will develop skills in searching for evidence and determining the quality of evidence using critical appraisal of literature.

## **NURSING 5110HO** **Change Management and Evaluation**

6 units - semester 1 or 2

Flexible learning mode

Assessment: 2000 word essay, 2000 word annotated bibliography, 3500 word plan for implementation strategy

This course will consider the issues and strategies used to implement Evidence Based Practice. Change management theories and their applicability to nursing will be examined. Evaluation of practice change and clinical audit will also be considered.

## **NURSING 6101HO** **Developing Advanced Practice in Health Systems I**

4 units - semester 1 or 2

Flexible learning mode

Restriction: Grad.Dip. Nursing Science students

Assessment: Portfolio

This course will consider a number of issues faced by registered nurses in advanced practice settings. Concepts such as accountability, decision-making and politics are considered as this course assists students to explore the supports and constraints within which nurses work. Some specific issues such as legal-ethical matters, leadership,

specialisation, evidence based practice, transcultural nursing and being part of a multi-disciplinary team are addressed with regard to the present and future role of the registered nurse.

### **NURSING 6102HO** **Developing Advanced Practice in Health Systems II**

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4 units - semester 1 or 2

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2 hours per week/flexible learning mode

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Restriction: Grad. Dip. Nursing Science students

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Assessment: 1250 word clinical audit proposal 25%, 3750 word clinical audit report 75%

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Drawing on your knowledge from your previous and current studies as well as your experience as a nurse this course assists you to systematically evaluate an area of nursing practice by engaging in the process of a clinical audit.

### **NURSING 6103HO** **Focused Reading in Clinical Nursing**

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4 units - semester 1 or 2

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Flexible learning mode - individual supervision by appointed supervisor

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Restriction: Grad.Dip. Nursing Science students

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Assessment: 1500 word literature review protocol, 3500 word literature review report

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This course will examine contemporary clinical nursing practice through a systematic review of the literature. Students will be required to follow a protocol to ensure scientific rigour and minimise potential bias.

### **NURSING 6104HO** **Nursing & Medical Science in Anaesthetics & Recovery I**

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4 units - semester 1

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3 hours per week lectures to students via flexible delivery methods

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Restriction: Grad.Dip. Nursing Science students

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Assessment: Essay topic, learning portfolio, online quiz students must pass each component

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This course provides the clinician with the essential knowledge that underpins their clinical practice. It focuses on theoretical frameworks of care through structured learning within relevant areas of perioperative practice. Following this course the clinician will have the essential knowledge to enable them to function at a rudimentary level within the areas of anaesthetic and recovery nursing. Topics included within this course include knowledge of the effects of anaesthesia on the body, pharmacology and understanding of the essential equipment for practice.

### **NURSING 6105HO** **Nursing & Medical Science in Anaesthetics & Recovery II**

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4 units - semester 2

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3 hours per week lectures to students via flexible delivery methods

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Restriction: Grad.Dip. Nursing Science students

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Assessment: Essay topic, learning portfolio, online quiz students must pass each component

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This course provides the clinician with advanced knowledge that focuses on their clinical practice. It focuses on theoretical frameworks of care through structured learning within relevant areas of perioperative practice. Following this course the clinician will have advanced knowledge to enable them to function at an advanced level within the areas of anaesthetic / recovery nursing. Topics included within this course include knowledge of advanced perianaesthesia practice for special surgical procedures and theoretical knowledge of complex conditions relating to clinical practice.

### **NURSING 6108HO** **Cardiac Nursing I**

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4 units - semester 1

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2 hours per week as required for workshops, 300 hours clinical practice

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Restriction: Grad.Dip. Nursing Science students

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Assessment: 2500 word case study 50%, 30 min. structured clinical assessment 50%, competency assessment pass/fail - students must pass each component

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This course will largely consist of field based learning within the area of cardiac nursing, supported by workshops. Advanced clinical skill acquisition will occur based on theoretical frameworks of care so that skills are not acquired within a vacuum that does not include the patient and family in context.

### **NURSING 6109HO** **Cardiac Nursing II**

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4 units - semester 2

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2 hours per week as required for workshops, 300 hours clinical practice

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Restriction: Grad.Dip. Nursing Science students

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Assessment: 2500 word case study 50%, 30 min. structured clinical assessment 50%, competency assessment pass/fail - students must pass each component

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This course will build on student's previous learning in Cardiac Nursing I. It will focus on advanced clinical skill acquisition, based on theoretical frameworks of care through field based learning within the area of cardiac nursing.

### **NURSING 6110HO** **Nursing & Medical Science in Cardiac Nursing I**

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4 units - semester 1

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3 hours per week/13 weeks

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Restriction: Grad.Dip. Nursing Science students

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Assessment: Tutorial presentations, 1000 word briefing paper 50%, 2 hour exam 50% - students must pass each component

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This course will build on the clinical and core courses in the specialty of cardiac nursing. The focus will be on physiology, biochemistry, therapeutics and nursing science.

## **NURSING 6111HO** **Nursing & Medical Science in Cardiac Nursing II**

4 units - semester 2

3 hours per week for 13 weeks

Restriction: Grad.Dip. Nursing Science students only

Assessment: 2500 word essay 50%, 2 hour exam 50% - students must pass each component

This course will build on Nursing and Medical Science in Cardiac Nursing I and the other specialty cardiac courses. The focus will be on physiology, biochemistry, therapeutics and nursing science.

## **NURSING 6112HO** **Interventional Cardiology**

4 units - semester 2

2 hours per week/12 weeks

Restriction: Grad.Dip. Nursing Science students only

Prerequisite: successful completion of both specialty courses in Semester 1; Applicants must be able to complete 300 hours of clinical practice in the cardiac catheterisation laboratory

Assessment: Case study, structured clinical assessment, competency assessment - students must pass every component

This course runs in conjunction with Nursing & Medical Science in Interventional Cardiology and integrates with Nursing & Medical Science in Cardiac Nursing II. This course is clinically based and has a significant focus on the acquisition of practical skills necessary to care for patients in the cardiac catheterisation laboratory. Students will gain practical knowledge in; the preparation of the patient and equipment for cardiac intervention procedures, the roles of the circulating and instrument nurse, and the analysis and interpretation of data obtained during interventional procedures.

## **NURSING 6113HO** **Nursing & Medical Science in Intervental Cardiology**

4 units - semester 2

3 hours per week/12 weeks

Restriction: Grad.Dip. Nursing Science students only

Prerequisite: Successful completion of both specialty courses in Semester 1 is essential before undertaking this course. In addition applicants must be able to undertake clinical practice in the cardiac catheterisation laboratory

Assessment: 2500 word essay 50%, 2 hour exam 50% - students must pass each assessment

This course will build on Nursing & Medical Science in Cardiac Nursing 1. The focus of this course is on the theoretic knowledge which underpins practice within the cardiac catheterisation laboratory and offers an overview of cardiac catheterisation procedures and the nursing responsibilities.

## **NURSING 6116HO** **Hyperbaric Nursing I**

6 units - semester 1 or 2

Restriction: Grad.Cert./Grad.Dip. Nurs.Sc.students

Assessment: Skills check list pass/fail workbook 35%, structured clinical assessment 35%, 1 hour exam 35% - students must pass each component

This course will examine nursing and medical science in relation to the indications for hyperbaric treatment, the principles of hyperbaric nursing and the physical and psycho-social needs of those undergoing hyperbaric treatment. Topics will include anatomy, physiology, psychosocial care, hyperbaric management and the teaching/learning process in patient education. Students will be required to participate in field experience.

## **NURSING 6117HO** **Infection Control Nursing**

6 units - semester 1 or 2

2 hours per week, field visits

Restriction: Grad.Cert. Nursing Science students

Assessment: Essay, clinical scenario, project. Students must pass every component

This course will examine nursing and medical science in relation to the control of infection. Topics will include microbiology, the management of infection, the teaching/ learning process in staff education and contemporary issues in infection control.

## **NURSING 6127HO** **Emergency Nursing I**

4 units - semester 1

2 hours per week as required for workshops, 300 hours clinical practice

Restriction: Grad.Dip. Nursing Science students

Assessment: 2500 word case study 50%, structured clinical assessment exam 50%, competency assessment. pass/fail - students must pass each component

This course will largely consist of field based learning within the area of Emergency Nursing, supported by workshops. Advanced clinical skill acquisition will occur based on theoretical frameworks of care. Skills will predominantly be concerned with assessment of the person presenting to an emergency department.

## **NURSING 6128HO** **Emergency Nursing II**

4 units - semester 2

2 hours per week as required for workshops, 300 hours clinical practice

Restriction: Grad.Dip. Nursing Science students

Assessment: Poster 2000 word equivalent 50%, 30 minute structured clinical assessment exam 50%, competency assessment pass/fail - students must pass each component

This course will build on students' previous learning in Emergency Nursing I. It will focus on advanced clinical skill acquisition, through field based learning within the area of Emergency Nursing. In particular skills associated with minor injuries, paediatric and obstetric care, preserving evidence, bereavement, pain and the coroner will be taught in tutorials.



## **NURSING 6129HO** **Nursing & Medical Science in Emergency Nursing I**

4 units - semester 1

3 hours per week

Restriction: Grad.Dip. Nursing Science students

Assessment: 2500 word essay 50%, 2 hour exam 50% - students must pass each component

This course will build on the clinical and core courses in the specialty of Emergency Nursing. The focus will be on physiology, biochemistry, therapeutics and nursing science.

## **NURSING 6130HO** **Nursing & Medical Science in Emergency Nursing II**

4 units - semester 2

3 hours per week

Restriction: Grad.Dip. Nursing Science students

Assessment: 2,500 word (or equiv) report critique 50%, 2 hour exam 50% - students must pass each component

This course will build on Nursing and Medical Science in Emergency Nursing I and the other specialty emergency courses. The focus will be on physiology, biochemistry, therapeutics and nursing science.

## **NURSING 6133HO** **Health Assessment**

3 units - semester 1 or 2

2 hours per week/Flexible learning mode

Restriction: Grad.Dip. Nursing Science students

Assessment: 2000 word description of health assessment 50%, demonstration of a health assessment 50%

Taking a holistic approach, this course will present methods of taking a health history, physical examination skills and health promotion techniques. These skills will assist general practice nurses to function in a multidisciplinary setting and in isolated practice.

## **NURSING 6136HO** **Contemporary Issues in Aged Care**

4 units - semester 1 or 2

2 hours per week or equiv/Flexible learning mode

Restriction: Grad.Dip. Nursing Science students

Assessment: 2500 word essay activity portfolio 50%, 2500 word essay 50%

This course will examine contemporary issues and debates specifically related to service delivery in the aged care sector. The impact of government policies and funding arrangements on the delivery of professional services to elderly people will be studied in detail. Courses will be directly related to the management and administration of a nursing service for elderly people in Australia.

## **NURSING 6137HO** **Functional Assessment**

4 units - semester 1 or 2

39 hours of tutorials/Flexible learning mode

Restriction: Grad.Dip. Nursing Science students

Assessment: 2500 word activity portfolio 50%, 2500 word essay 50%

This course will focus on the skills of assessment and the planning of care and services. Topics will include physical assessment; assessment of activities of living; psychosocial assessment; problem identification and management; and enablement processes.

## **NURSING 6138HO** **Gerontological Nursing**

4 units - semester 1 or 2

2 hours per week or equiv., 200 hours of clinical practice/flexible learning mode

Restriction: Grad.Dip. Nursing Science students

Assessment: Portfolio, word essay. Students must pass every component

This course examines the ageing process and uses the knowledge gained from understanding the ageing process to advance clinical skill acquisition based on theoretical frameworks of care through field based learning within the area of Gerontological Nursing

## **NURSING 6139HO** **Palliative Nursing in Aged Care**

4 units - semester 1 or 2

2 hours per week as required for workshops or equivalent/flexible learning mode

Restriction: Grad.Dip. Nursing Science students

Assessment: Portfolio, essay. Students must pass every component

This course focuses on the special needs of the elderly at the end of life and will examine the role of the nurse in aged care providing palliative services. The course combines contemporary knowledge with field based learning within the area of Palliative Care Nursing in Aged Care. Topics covered include pain assessment and management, symptom control, support processes, spiritual issues, complementary therapies, loss, grief and bereavement and ethical issues.

## **NURSING 6144HO** **Intensive Care Nursing I**

4 units - semester 1

2 hours per week as required for workshops; 300 hours clinical practice

Restriction: Grad.Dip. Nursing Science students

Assessment: Clinical assessment sheets, 30 min. structured clinical assessment, competency assessment - students must pass each component

This course will largely consist of field based learning within the area of Intensive Care nursing, supported by workshops. Advanced clinical skill acquisition will occur based on theoretical frameworks of care so that skills are not acquired within a vacuum that does not include the patient and family in context.

## **NURSING 6145HO** **Intensive Care Nursing II**

4 units - semester 2

2 hours per week as required for workshops; 300 hours clinical practice

Restriction: Graduate Diploma in Nursing Science students

Assessment: 2500 word case study 50%, 30 min. structured clinical assessment 50%, competency assessment pass/fail - students must pass each component

This course will build on student's previous learning in Intensive Care Nursing I. It will focus on advanced clinical skill acquisition, based on theoretical frameworks of care through field based learning within the area of Intensive Care nursing.

## **NURSING 6146HO** **Nursing & Medical Science in Intensive Care I**

4 units - semester 1

3 hours per week for 13 weeks

Restriction: Grad.Dip. Nursing Science students

Assessment: 2500 word essay 50%, 2 hour exam 50% - students must pass each component

This course will build on the clinical and core courses in the speciality of Intensive Care nursing. The focus will be on pathophysiology, biochemistry, therapeutics and nursing science.

## **NURSING 6147HO** **Nursing & Medical Science in Intensive Care II**

4 units - semester 2

3 hours per week

Restriction: Grad.Dip. Nursing Science students

Assessment: sStudent presentation & 1000 word synopsis 50%, 2 hour exam 50% - students must pass each component

This course will build on Nursing and Medical Science in Intensive Care I and the other specialty Intensive Care courses. The focus will be on pathophysiology, biochemistry, therapeutics and nursing science.

## **NURSING 6152HO** **Nursing & Medical Science in Oncology Nursing I**

4 units - semester 1

Flexible delivery mode

Restriction: Grad.Dip. Nursing Science students

Assessment: 2500 word (or equiv) portfolio 50%, 2500 word essay (or equiv) 50% - students must pass each component

This course focuses on the disease of cancer, how it is treated and the effects of treatment. Topics include physiology of cancer, treatment selection; the action of different treatment types, the effect on the individual undergoing treatment, cancer genetics, palliative care issues, and complimentary and psychological therapies.

## **NURSING 6153HO** **Nursing & Medical Science in Oncology Nursing II**

4 units - semester 2

Flexible delivery mode

Restriction: Grad.Dip. Nursing Science students

Assessment: 2500 word (or equiv) portfolio 50%, 2500 word (or equiv) presentation/synopsis paper 50% - students must pass each component

This course builds on the knowledge gained during the previous semester, developing an understanding of specific diseases and their management. The impact of malignancy is considered including patient education and trials in oncology. Other specific areas discussed include legal and ethical considerations for oncology nurses.

## **NURSING 6154HO** **Oncology Nursing I**

4 units - semester 1

Flexible delivery mode, 300 hours clinical practice per semester - equiv. to 2.5 days per week

Restriction: Grad.Dip. Nursing Science students

Assessment: 2500 word (or equiv) case study 50%, 2500 word (or equiv) presentation/synopsis paper 50%, skills book/diary pass/fail, online classroom participation pass/fail - students must pass each component

This course addresses the specialised clinical skills necessary to practice as a registered nurse in the oncology setting and will largely consist of field based learning within the clinical practice setting of haematology/oncology nursing supported by title holders. Participative workshops and online tutorials will support learning.

## **NURSING 6155HO** **Oncology Nursing II**

4 units - semester 2

Flexible delivery mode, 300 hours clinical practice per semester - equiv. to 2.5 days per week

Restriction: Grad.Dip. Nursing Science students

Assessment: 2500 word (or equiv) poster presentation 50%, 2500 word (or equiv) essay 50%, skills book/diary pass/fail, online classroom participation pass/fail - students must pass each component

This course builds on the previous semester. Topics include leadership and research in cancer nursing, consumer perspectives, clinical trials, community supports and survival issues. Visits to various care settings are required. Participative workshops and online tutorials will support learning.

## **NURSING 6156HO** **Nursing and Medical Science in Orthopaedics I**

4 units - semester 1

Flexible delivery mode

Restriction: Grad.Dip. Nursing Science students

Assessment: 2500 word (or equiv) portfolio 50%, 2500 word evidence based practice essay 50% - students must pass each component

This course focuses on nursing and medical science specific to the field of orthopaedic nursing. The focus is on the physiology, pathophysiology, biochemistry and

therapeutics supporting the prevention, assessment and diagnostic studies of musculoskeletal conditions. Specific musculoskeletal disorders are then discussed utilising the same theoretical framework.

### **NURSING 6157HO** **Orthopaedic Nursing I**

4 units - semester 1

Flexible delivery mode

Restriction: Grad.Dip. Nursing Science students

Assessment: 2500 word (or equiv) poster 50%, 2500 word case study 50%, clinical diary pass/fail, online tutorial & workshop attendance pass/fail - students must pass each component

This course largely consists of field based learning within the area of orthopaedic nursing, supported by tutorials and workshops. It focuses on advanced clinical skill acquisition based on theoretical frameworks of care, aligned with topics covered in NURSING 6156HO.

### **NURSING 6158HO** **Orthopaedic Nursing II**

4 units - semester 2

Flexible delivery mode

Restriction: Grad.Dip. Nursing Science students only

Assessment: 2500 word (or equiv) presentation 50%, 2500 word case study 50%, clinical diary pass/fail, online tutorial & workshop attendance pass/fail - students must pass each component

This course builds on student's previous learning in Orthopaedic Nursing I. It focuses on further advanced clinical skill acquisition based in theoretical frameworks of care, aligned with topics covered in NURSING 6175HO.

### **NURSING 6159HO** **Nursing & Medical Science in Perioperative Nursing I**

4 units - semester 1 or 2

3 hours per week/12 weeks/flexible learning mode

Restriction: Grad.Dip. Nursing Science students

Assessment: Essay, learning portfolio - students must pass each component

This course will build on the clinical and core courses in the specialty of Perioperative Nursing. The focus will be on physiology, biochemistry, therapeutics and nursing science.

### **NURSING 6160HO** **Nursing & Medical Science in Perioperative Nursing II**

4 units - semester 1 or 2

3 hours per week/12 weeks/flexible learning mode

Restriction: Grad.Dip. Nursing Science students

Assessment: Learning portfolio, presentation - students must pass each component

This course will build on Nursing and Medical Science in Perioperative Nursing I and the other specialty Perioperative Nursing courses. The focus will be on physiology, biochemistry, therapeutics and nursing science.

### **NURSING 6161HO** **Perioperative Nursing I**

4 units - semester 1 or 2

2 hours per week for 12 weeks flexible learning mode, 300 hours clinical practice

Restriction: Grad.Dip. Nursing Science students

Assessment: Presentation, discussion board, competency assessment- students must pass each component

This course will largely consist of field based learning within the area of Perioperative Nursing, supported by workshops. Advanced clinical skill acquisition will occur based on theoretical frameworks of care so that skills are not acquired within a vacuum which does not include the patient and family in context.

### **NURSING 6162HO** **Perioperative Nursing II**

4 units - semester 1 or 2

2 hours per week for 12 weeks flexible learning mode, 300 hours clinical practice

Restriction: Grad.Dip. Nursing Science students

Assessment: Poster, structured clinical assessment, competency assessment - students must pass each component

This course will build on student's previous learning in Perioperative Nursing I. It will focus on advanced clinical skill acquisition, based on theoretical frameworks of care through field based learning within the area of Perioperative Nursing.

### **NURSING 6168HO** **Population Profiling in Chronic Illness**

4 units - semester 1 or 2

Flexible learning mode

Restriction: Grad.Dip. Nursing Science students

Assessment: Need analysis report, essay

This course will require students to apply the skills and knowledge gained from the previous courses in order to fulfill the following objectives: to be able to profile populations and establish need; and to have the ability to create supportive environments and strengthen 'community' action in order for individuals/'families'/communities to respond and help determine their own health status.

### **NURSING 6175HO** **Nursing & Medical Science in Orthopaedics II**

4 units - semester 2

Flexible delivery mode

Restriction: Grad.Dip. Nursing Science students

Assessment: 2500 word (or equiv) Portfolio 50%, 2500 word evidence based practice essay 50% - students must pass each component

This course builds on student's previous learning in NURSING 6156HO. Specific musculoskeletal disorders, therapeutic management of comorbidities, peri-acute rehabilitation and discharge planning of the orthopaedic patient are addressed supported by the underpinning physiology, pathophysiology, biochemistry, therapeutics and nursing science.

## **NURSING 6178HO** **Anaesthetic and Recovery Nursing I**

4 units - semester 1

2 hours per week for 12 weeks via flexible learning mode, minimum 300 hours clinical practice

Restriction: Grad.Dip. Nursing Science students

Assessment: Discussion board, perioperative patient pathway, clinical skills - Students must pass every component

This course provides the clinician with the clinically-focused skills to function as an anaesthetic and recovery nurse within the clinical areas of the perioperative environment. It focuses on clinical skill acquisition based on principles of practice and demonstration of practical skills that are reinforced within the clinical environment. Following this course the clinician will be able to function at a rudimentary level within the areas of anaesthetic and recovery nursing. Topics included within this course include airway management, care of the patient undergoing general and regional anaesthesia during their perioperative care and the clinical management of perioperative complications.

## **NURSING 6179HO** **Anaesthetic and Recovery Nursing II**

4 units - semester 2

2 hours per week for 12 weeks via flexible delivery methods, minimum 300 hours clinical practice

Restriction: Grad.Dip. Nursing Science students

Assessment: Discussion board, perioperative patient pathway, clinical skills - Students must pass every component

This course provides the clinician with the advanced clinical skills to function as an advanced anaesthetic / recovery nurse within the perioperative environment. Examples of the topics included within this course include the specialist clinical practice relating to the sub specialties, clinical management of complex patients and professional issues relating to their role.

## **NURSING 6181HO** **Nursing & Medical Science in Burns Nursing 1**

4 units - semester 1

Flexible learning mode

Assessment: Essay, portfolio - students must pass each component

This course will examine nursing and medical science in relation to burn management and the principles of burn nursing. Topics will include anatomy & physiology, wound management, patho-physiology, pain management and surgical interventions.

## **NURSING 6182HO** **Nursing & Medical Science in Burns Nursing II**

4 units - semester 2

Flexible learning mode

Assessment: Essay, portfolio - students must pass each component

Course will focus on the rehabilitation of the burn patient and their family. The role and the future professional development of the burns nurse will also be addressed. Topics will include physical therapy, psychosocial care, discharge planning, disaster management, burn prevention and education.

## **NURSING 6183HO** **Burns Nursing I**

4 units - semester 1

Flexible learning mode

Assessment: 2500 word (or equiv) Poster 50%, 1250 word (or equiv) presentation & synopsis 50%, online participation pass/fail - students must pass each course component

This course will largely consist of field based nursing within the area of clinical practice, supported by online discussions. Students will explore the specialist skills required for management of the patient with a burn injury.

## **NURSING 6184HO** **Burns Nursing II**

4 units - semester 2

Flexible learning mode

Assessment: Online discussion board, presentation & synopsis online participation - students must pass each component

This course will consist of field based nursing within the area of clinical practice, supported by online discussions. Students will explore the skills required for meeting the holistic needs for the management of the patient with a burn injury, with a focus on case management, therapies, and the transition of patients with a burn injury back into the community. There will be a large component with a focus on disaster management including an electronically supported role play - simulation exercise.

## **NURSING 6191HO** **Acute Care Nursing**

4 units - semester 1 or 2

Flexible learning mode

Restriction: Grad.Dip. Nursing Science students only

Assessment: Online presentation, essay. students must pass every component

This course compliments the concepts and knowledge presented in Nursing and Medical Science in Acute Care Nursing. It links theory with practice and consists of field based learning within the area of acute care practice, supported by online tutorials and workshops. It focuses on clinical skills acquisition through field based learning in the practice setting of acute care nursing.

## **NURSING 6192HO**

### **Medical Nursing**

4 units - semester 2

Flexible learning mode, attendance of online tutorials is required

Restriction: Grad.Dip. Nursing Science students only

Assessment: Clinical diary, poster, portfolio. Students must pass every component

This course is designed to provide a theoretical framework specifically in medical nursing intertwined with the acquisition of advanced clinical skills that are pertinent. The focus is on physiology, pathophysiology, biochemistry, therapeutics and nursing science, of the most prevalent conditions relevant to medical nursing. The course will be delivered via modules in a thematic fashion.

## **NURSING 6193HO**

### **High Acuity Nursing**

4 units - semester 2

Flexible learning mode, attendance of online tutorials is required

Restriction: Grad.Dip. Nursing Science students only

Assessment: Clinical diary, poster, portfolio. Students must pass every component

This course is designed to provide a theoretical framework specifically in high acuity nursing intertwined with advanced clinical skills that are pertinent. The focus is on physiology, pathophysiology, biochemistry, therapeutics and nursing science, of the relevant conditions to high acuity nursing. The course will be delivered via modules and a workshop in a thematic fashion.

## **NURSING 6194HO**

### **Surgical Nursing**

4 units - semester 2

Flexible learning mode, attendance of online tutorial is required

Restriction: Grad.Dip. Nursing Science students

Assessment: Clinical diary, poster, portfolio. Students must pass every component

This course is designed to provide a theoretical framework specifically in surgical nursing intertwined with the acquisition of advanced clinical skills that are pertinent. The focus is on physiology, pathophysiology, biochemistry, therapeutics and nursing science, of the most prevalent conditions relevant to surgical nursing. The course will be delivered via modules in a thematic fashion.

## **NURSING 6195HO**

### **Working with Clients and Community**

4 units - semester 1 or 2

Flexible learning mode

Restriction: Grad.Dip. Nursing Science student

Assessment: 3000 word incremental learning portfolio 60%, 2000 word case study 40%

Working with Clients and Community: A primary health care approach in district nursing practice will introduce students to primary health care. This course will enable students to understand primary health care philosophies underpinning practice and the principles of equity and

social justice in health care. Specific areas that are addresses include; nursing in the community, assessment of the client and community, evidence for practice and health promotion.

## **NURSING 6196HO**

### **Acute Mental Health Care I**

4 units - semester 1 or 2

Restriction: Grad.Dip. Nursing Science students only

Prerequisite: Registration with Nurses Board of South Australia (or equiv) as registered nurse

Assessment: Portfolio 70%, 1500 word essay 30% - students must pass each component

This course explores the theory and practice of the nurse-client relationship as the foundation of mental health nursing.

## **NURSING 6197HO**

### **Acute Mental Health Care II**

4 units - semester 1 or 2

Restriction: Grad.Dip. Nursing Science students

Prerequisite: Registration with Nurses Board of South Australia (or equiv) as registered nurse

Assessment: Portfolio 70%, 1500 word case study 30% - students must pass each component

The focus will be on the acquisition of clinical skills through field based training in the acute inpatient practice setting.

## **NURSING 6198HO**

### **Primary Mental Health Care**

4 units - semester 1 or 2

Restriction: Grad.Dip. Nursing Science students

Prerequisite: Registration with Nurses Board of South Australia (or equiv) as registered nurse

Assessment: Portfolio 70%, 1500 word case study 30% - students must pass each component

This course will focus on the implications of the National Mental Health Reforms in the context of both inpatient and community settings. It will examine the epidemiology of mental illness as well as early intervention techniques and mental health promotion and prevention.

## **NURSING 6199HO**

### **Therapeutic Advances in Acute Mental Health**

4 units - semester 1 or 2

Restriction: Grad.Dip. Nursing Science students

Prerequisite: Registration with Nurses Board of South Australia (or equiv) as registered nurse

Assessment: Portfolio 70%, 1500 word annotated bibliography 30% - students must pass each component

The nurse will focus on the beginning development of their own therapeutic system drawing on models and theories from the humanistic, cognitive and behavioural therapies.

## **NURSING 6200HO** **Community Mental Health Nursing**

4 units - semester 1 or 2

Restriction: Grad.Dip. Nursing Science students

Prerequisite: Registration with Nurses Board of South Australia (or equiv) as registered nurse

Assessment: Portfolio 70%, 1500 word annotated bibliography 30% - students must pass each component

This course will focus on the process and principles of community mental health nursing. Topics covered include case management, multidisciplinary teamwork, community development, psychosocial rehabilitation and consumer self-empowerment strategies.

## **NURSING 6201HO** **Advanced Infection Control Practice**

4 units - semester 1 or 2

Flexible learning mode

Restriction: Grad. Dip. Nursing Science students

Assessment: Essay, business case - students must pass every component

This course will examine issues related to advanced infection control practice within the clinical setting. Students will cover various practice-related issues within their specific health care setting with particular reference to managing change of infection control practice.

## **NURSING 6202HO** **Nursing & Medical Science in Acute Care Nursing I**

4 units - semester 1

Flexible learning mode

Restriction: Grad Dip Nursing Science students only

Assessment: Case study, exam. Students must pass every component

This course is designed to provide a theoretical framework in nursing and medical science that is specific to the area of acute care practice. The focus is on physiology, pathophysiology, biochemistry, therapeutics and nursing science delivered via lectures and workshops in a thematic modular fashion.

## **NURSING 6203HO** **Nursing & Medical Science in Acute Care Nursing II**

4 units - semester 2

Flexible learning mode

Restriction: Grad Dip Nursing Science students only

Assessment: Exam, evidence based essay. Students must ever component

This course is designed to provide a theoretical framework in nursing and medical science that is specific to the area of acute care practice. The focus is on physiology, pathophysiology, biochemistry, therapeutics and nursing science delivered via lectures and workshops in a thematic modular fashion.

## **NURSING 6204HO** **Co-Existing Addiction and Mental Health Disorders**

6 units - semester 1 or 2

1 hour

Restriction: Graduate Diploma in Addiction and Mental Health

Assessment: Learning portfolio, annotated bibliography, tutorials

This course will examine the scientific basis of addiction, mental health and related comorbidities (co-morbidity). Issues to be discussed include, comparative epidemiology, national mental health and drug and alcohol policy (e.g. National Comorbidity Project), integrated systems for evidence based interventions, research methodologies, specialised responses and the need for a holistic philosophy of practice.

The first part of the course provides the background by giving an overview of co-morbidity. We examine the concepts and theories underpinning the co-existence of addiction, mental illness and other co-existing disorders in an individual and present them in the worldwide and local contexts. The second part of the course deals with the practitioner and consultation-liaison response to co-morbidity in the areas of adolescence, Indigenous and migrant cultures, pregnancy and childbirth, forensics and defence forces. We examine best practice for service providers and practitioners to provide effective therapeutic interventions and coordinated approaches.

## **NURSING 6205HO** **Mental Health**

6 units - semester 1 or 2

1 hour

Restriction: Graduate Diploma in Addiction and Mental Health

Assessment: Learning portfolio, Essay and Tutorials

This course will examine the theory and practice of the carer-client relationship as the foundation of mental health and addiction care. It will examine the fundamentals of mental illness (depression, anxiety disorders, psychosis, post traumatic stress disorder, personality disorder etc), and causes (biochemical, neurological, behavioural, developmental, genetic, social etc), treatments (pharmacological, psychological, spiritual) and health care models (shared care, acute inpatient, outpatient, community and recovery approaches) which form the basis of best mental health and addiction care. The course will also examine mental health and addiction from the perspectives of the National Mental Health Reforms and alcohol and other drug policy making on a national, state and local government level.

## **NURSING 6271EX** **Management of Chronic Illness**

4 units - semester 1 or 2

Flexible learning mode

Restriction: Grad.Dip.Nursing Science students

Check with School for Non-Award Study

Assessment: Incremental Portfolio (5000)

The specific objectives are for students to: develop an aspect of care based on current research evidence; acquire literature searching and critical evaluation skills using systematic procedures; and further develop 'transferable' management and communication skills. Students will cover the following topics: principles of management with the context of community/palliative care, diabetes; continence and medication management in relation to community care

### **NURSING 6272EX** **Primary Health Care**

4 units - semester 1 or 2

Flexible learning mode

Restriction: Grad.Dip.Nursing Science students

Assessment: 2500 word mini project write-up 50%, 2500 word portfolio 50%

This course will give students grounding in the basic concepts of primary health care. This course will focus on issues in Community Nursing, Primary Health and New Public Health. The specific objectives are for students to: understand primary health care philosophies underpinning practice; understand the socio-political environments in which care is delivered; and further develop 'transferable' management and communication skills.

### **NURSING 6273EX** **Pathology & Pharmacology**

3 units - semester 1 or 2

12 weeks, flexible learning mode

Restriction: Grad.Dip.Nursing Science students

Available for Non-Award Study

Assessment: Project 50%, Examination 50%

This course advances students' understanding of pathology and pharmacology, as they relate specific diseases. Students are required to apply this knowledge to clinical problems encountered in their daily nursing practice.

### **NURSING 6274EX** **Wound Management**

4 units - semester 1 or 2

Flexible learning mode

Restriction: Grad.Dip.Nursing Science students

Available for Non-Award Study

Assessment: 2500 word wound assessment form 50%, 2500 word self evaluation & critical reflection 50%

This course will require some field-based learning. Students will be expected to develop expertise based on current research evidence and reflective practice. The course is designed to encourage the participant to explore current concepts in wound management, including the vital aspect of appropriate assessment. The issues that students will be expected to develop include literature searching and critical evaluation skills.

### **NURSING 6275EX** **Nursing & Medical Science in Acute Care Nursing 1**

4 units - semester 1 or 2

Flexible learning mode

Restriction: Grad.Dip.Nursing Science students

Check with School for Non-Award Study

Assessment: 2500 word annotated bibliography 50%, exam 50%

This course is designed to provide a theoretical framework in nursing and medical science that is specific to the area of acute care practice. The focus is on physiology, pathophysiology, biochemistry, therapeutics and nursing science delivered via lectures and workshops in a thematic modular fashion.

### **NURSING 6276EX** **Nursing & Medical Science in Acute Care Nursing II**

4 units - semester 1 or 2

Flexible learning mode

Restriction: Grad.Dip.Nursing Science students

Check with School for Non-Award Study

Assessment: 2500 word essay 50%, exam 50%

This course is designed to provide a theoretical framework in nursing and medical science that is specific to the area of acute care practice. The focus is on physiology, pathophysiology, biochemistry, therapeutics and nursing science delivered via lectures and workshops in a thematic modular fashion.

### **NURSING 6277EX** **Emergency Care in the Community**

2 units - semester 1 or 2

10 day practicum, two day intensive workshop, 300 hours clinical practice

Restriction: Grad.Dip.Nursing Science students

Check with School for Non-Award Study

Assessment: Assessment, skills checklist & practical exam

This course has a particular focus on clinical skills acquisition in the area of emergency care.

### **NURSING 7001HO** **Empirical/Analytical Research in Health**

3 units - semester 1 or 2

Flexible learning mode

Restriction: M. Nurs.Sc, M. Grief & Pall. Care Couns, G.Cert./G.Dip./M. Pub.Hlth, G.Dip.OHS, X Inst Program - PGCW

Assessment: Word portfolio, research proposal

This course will build on student's previous learning on the empirico/analytical paradigm and focus on research design from this perspective. Topics will include experimental and quasi-experimental design; surveys; developing hypotheses; sampling; approaches to data collection; reliability and validity. Students will also be introduced to published nursing research reports which utilise this perspective and will be required to subject these to rigorous critique.

## **NURSING 7002HO** **Interpretive and Critical Research in Health**

3 units - semester 1 or 2

Flexible learning mode

Restriction: M. Nurs.Sc, M.Grief & Pall.Care Couns, G.Cert./G.Dip/M. Pub.Hlth, G.Dip.OHS, X Inst Program - PGCW

Assessment: Essay, research proposal

This course will build on students' previous learning on the interpretive and critical paradigms and focus on research design from this perspective. Topics will include the critique of positivism and an introduction to interpretive methodologies, such as grounded theory, ethnography and phenomenology. There will be a brief overview of critical methodologies (feminist research and action research). Practical research activities such as literature searching, conducting interviews and coding qualitative data will also be provided.

## **NURSING 7003HO** **International Issues in Nursing Service Delivery**

3 units - semester 1 or 2

Flexible learning mode

Restriction: M.Nurs.Sc.students only

Assessment: 2 essays

This course is designed to introduce students to a variety of topical issues related to the health care system and nurses' roles within it, both on a national and international level. Topics will include health and the environment, the epidemiology of disease, epidemiological tools, poverty, global conflict, the economics of health care, political awareness, leadership and spheres of nursing.

## **NURSING 7004HO** **The Emergence of A Theoretical Base for Nursing**

3 units - semester 1 or 2

Flexible learning mode

Restriction: M.Nurs.Sc.students only

Assessment: 3000 word portfolio 50%, 3000 word essay 50%

This course will build on students' previous learning on nursing theory and will critique current discourses in nursing on theory development. Students will critically analyse nursing and locate and discuss the origins of dominant theories in nursing. They will apply and subsequently transform theory from other disciplines which inform nursing, develop theoretical understanding of nursing and advance the discipline of nursing through theoretical nursing in practice.

## **NURSING 7005HO** **Research Dissertation A**

12 units - semester 1 or 2

Individual supervision

Restriction: Master of Nursing Science students only

Assessment: 20,000-25,000 word research dissertation

This component of the program requires the student to identify a research question or problem, obtain appropriate ethical approval for the study, to carry out a small research study based on this question, and to submit a fully developed report.

## **NURSING 7006HO** **Research Dissertation A Stage 1**

6 units - semester 1 or 2

Individual supervision

Restriction: M.Nurs.Sc.students only

Assessment: submission, peer review & ethical approval of research proposal

This component of the program requires the student to identify a research question or problem, to develop a research proposal and commence data collection.

## **NURSING 7007HO** **Research Dissertation A Stage II**

6 units - semester 1 or 2

Individual supervision

Restriction: M.Nurs.Sc.students only

Assessment: 20,000 - 25,000 word dissertation

This component of the program requires the student to identify a research question or problem, to carry out a small research study based on this question, and to submit a fully developed report.

## **NURSING 7008HO** **Research Dissertation B Stage 1**

6 units - semester 1 or 2

Individual supervision

Restriction: Master of Nursing Science Students

Assessment: Submission, peer review and ethical approval of a research proposal

This component of the program requires the student to identify a research question or problem, to carry out a substantial research study based on this question, and to submit a fully developed report.

## **NURSING 7009HO** **Research Dissertation B (P/T) Progressing**

6 units - semester 1 or 2

Individual supervision

Restriction: Master of Nursing Science students

Assessment: students receive satisfactory/unsatisfactory grade

This component of the program requires the student to continue to work on their research.



## **NURSING 7010HO** **Research Dissertation B (P/T) Final**

6 units - semester 1 or 2

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Individual supervision

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Restriction: M.Nurs.Sc.students only

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Assessment: 30,000 - 35,000 word dissertation

This component of the program requires the student to identify a research question or problem, to carry out a substantial research study based on this question, and to submit a fully developed report.

## **NURSING 7011HO** **Clinical Management**

3 units - semester 1 or 2

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Flexible learning mode

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Restriction: M.Nurs.Sc.students only

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Assessment: Strategic plan, portfolio

This course will explore contemporary issues in relation to health management in clinical nursing practice. Topics will include: health service organisation, strategic planning, financial planning, human resource management and clinical leadership.

## **NURSING 7012HO** **Systematic and Critical Reviews of the Research**

3 units - semester 1 or 2

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Flexible learning mode with optional oncampus tutorials

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Restriction: M.Nurs.Sc.students only

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Assessment: Essay, review protocol

This course introduces the students to reviews of research, the need for these reviews and different types of research reviews. Through a program of reading, students will have the opportunity to explore systematic and critical reviews. Students will gain an understanding of the role and components of a review protocol and the principles of research and approaches to summarising and synthesising the findings of research will also be explored.

## **NURSING 7013HO** **Critical Review Project**

6 units - semester 1 or 2

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No formal teaching

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Restriction: M.Nurs.Sc.students only

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Assessment: Literature review report, article for publication

This course will provide students with the opportunity to review the research literature on a topic of interest. During this program of study the student will utilise the skills and knowledge gained in the other Master of Nursing Science courses such as Systematic and Critical Reviews of the Research. Students will undertake a critical review of the literature, and based on this review, produce an article for publication in a peer reviewed journal.

## **NURSING 7014HO** **Advanced Health Assessment**

3 units - semester 2

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External delivery

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Restriction: M.Nurs.Sc.students only

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Assessment: 20 min videotaped health assessment of child/older person 40%, 40 min videotaped health assessment of person with chronic illness & 2000 word report of person's health 60%

This course builds upon the student's previous assessment skills offering more advanced health assessment content to provide a foundation for advanced practice nursing. For each part of the course the content will focus on three main assessment aspects: (i) older persons, (ii) children, (iii) adults. There will be an emphasis on focused assessment of: the chief complaint, risks to health, functional assessment and diverse populations and how they vary according to ethnicity, culture, gender and age.

An overview of health screening examination will occur together with some information on the ordering, performing and interpreting of laboratory and radiographic tests. Students will be expected to critically analyse these tests and other physical examination techniques for their validity and reliability in order to make a judgement about their usefulness.

Throughout the course effective communication, client teaching and counselling will be stressed as important tools necessary to discover the client's interpretation of health or illness. Documentation and the written description summarising the health assessment are important skills that will be addressed as part of the course.

## **NURSING 7015HO** **Applied Pharmacology in Nursing**

3 units - semester 2

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External delivery

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Restriction: M.Nurs.Sc.students only

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Assessment: 2000 word applied drug monograph 35%, 1000 word equiv online multiple choice exam 15%, 3000 word essay 50%

This course will build upon an undergraduate understanding of drug use, prescribing and administration and some reading may be required. Course material will be introduced with a discussion of: the South Australian and Australian legal requirements for the prescription and administration of drugs; ethical issues involved in the cost, prescription and clinical drug trials; the process of collating a patient's medication history.

Drugs will be discussed according to their classes of action; this will be predominantly based on the body systems that they act on and are usually prescribed for. The review of each class of drug will concentrate on particular examples in which the composition of the drug and its mode of action will be outlined. Students will also learn about how drugs are chosen for particular effects. The pharmacological principles of: pharmacokinetics, pharmacodynamics, adverse effects, contraindications and precautions will be described using examples from different drug classes. At the end of the course students will consider the complexities of polypharmacy

and the quality use of medicines. While this course will not prepare students for a role as a prescriber, they will be taught the concepts of safe prescribing and administration.

### **NURSING 7016HO** **Research Dissertation B Stage 2**

12 units - semester 1 or 2

Individual supervision

Restriction: Master of Nursing Science Students

Assessment: 30,000 - 35,000 word dissertation

This component of the program requires the student to identify a research question or problem, to carry out a substantial research study based on this question, and to submit a fully developed report.

### **NURSING 7017HO** **Extended Clinical Practice I**

3 units - semester 1 or 2

Restriction: Master of Nurse Practitioner students only

Assessment: Professional portfolio, case studies, class presentation

This course is designed to prepare the student for extended clinical practice in their chosen specialty. The course will begin by focusing on advanced assessment, investigations and differential diagnosis. Students will then work with their clinical mentors to become competent in the clinical skills they require to function in their scope of practice as nurse practitioners. Students will be required to develop a Nurse Practitioner portfolio. This will include case studies and exemplars demonstrating complex decision making and client care and records of education sessions, and professional activities. Students will also be required to perform three patient assessments to be evaluated by their clinical mentor. Finally students will present a case demonstrating how they integrated their learning with practice in the management of a client within their scope of practice as a nurse practitioner.

### **NURSING 7018HO** **Extended Clinical Practice II**

3 units - semester 1 or 2

Flexible learning 2 day on campus workshop

Restriction: Master of Nurse Practitioner students only

Assessment: Professional portfolio, case studies, class presentation

Nurse practitioners practise as members of an interdisciplinary team and within a professional and legal framework. Thus this course will focus on issues such as legislation, risk management, guidelines and protocols, clinical pathways, consumer collaboration, professional standards, interdisciplinary team work, referral, clinical supervision, and leadership and management.

### **NURSING 8012HO** **Research V**

6 units - semester 1 or 2

Restriction: D.Nursing students

Assessment: Research based activities

This component of the degree requires students to identify substantive research questions or problems; to carry out research based activities; and to submit a portfolio of approximately 50,000 words which represents an original contribution to knowledge in nursing. The research portfolio should contain two or three separate research projects, related in terms of the area of interest and presented as completed research reports. The portfolio may also contain published work, for example a systematic review and/or an article published in a refereed journal from the student's research.

### **NURSING 8013HO** **Research VI**

6 units - semester 1 or 2

Restriction: Doctor of Nursing students only

Assessment: Research based activities

This component of the degree requires students to identify substantive research questions or problems; to carry out research based activities; and to submit a portfolio of approximately 50,000 words which represents an original contribution to knowledge in nursing. The research portfolio should contain two or three separate research projects, related in terms of the area of interest and presented as completed research reports. The portfolio may also contain published work, for example a systematic review and/or an article published in a refereed journal from the student's research.

## **Occupational Health & Safety**

### **OH&S 7014HO** **Occupational and Environmental Health Studies**

3 units - semester 1 or 2

Internal & external mode

Restriction: Grad Dip/M.OH&S students

Assessment: To be advised

This subject is an agreed program of study, negotiated between the student, an academic staff member and the OH&S program coordinator. A variety of courses may be considered from the fields of occupational, environmental or public health, offered at either the University of Adelaide or University of South Australia.

### **OH&S 7031TB** **Occupational Hygiene and Ergonomics**

3 units - semester 2

Internal & external mode

Restriction: Grad Cert, Grad Dip, MPH students

Assessment: Minor assignments 15%, exam 35%, major assignment 50% - no exam for external students; additional assignments & participation 10%

This course is an introduction to practical occupational hygiene and ergonomics. There is broad coverage of chemical and physical hazards and of technologies for evaluation and control. Topics include their noise,

vibration, thermal stress, shift work, biohazards and toxic chemicals. There will be discussion of exposure standards and the interpretation of hygiene data. There will also be an overview of ergonomics, including consideration of workstation and process design; displays and information systems; biomechanics; anthropometry; and psychological aspects.

### **OH&S 7078A/B**

#### **Occupational Health & Safety Practicum (PT)**

6 units - full year

Internal or external, two semesters part time

Check with School for Non-Award Study

Prerequisite: Grad.Cert.OHS Management

Assumed Knowledge: Completion of requirements for Grad.Cert. OHS Mgt

Assessment: Written project report, oral presentation, logbook entries, supervisor's report

Students are required to undertake a project whilst placed or employed in an approved OHS agency or company. Day to day supervision will be provided by the agency or company, and the project must address an issue of OHS significance. A logbook of activity must be kept, and the assessment is on the basis of a written project report, oral presentation, logbook entries and the supervisor's report.

### **OH&S 7080**

#### **Occupational Health & Safety Practicum (Full time)**

6 units - semester 1 or 2

Internal or external, full semester, full time

Prerequisite: Grad.Cert.OHS Management or equiv

Assumed Knowledge: Completion of requirements for Grad.Cert. OHS Mgt

Assessment: Written project report, oral presentation, logbook entries, supervisor's report

Students are required to undertake a project, whilst placed or employed in an approved OHS agency or company. Day to day supervision will be provided by the agency or company, the project must address an issue of OHS significance. A logbook of activity must be kept, and the assessment is on the basis of a written project report, oral presentation, logbook entries and the supervisor's report.

### **OH&S 7105TB**

#### **Diseases of Occupation**

3 units - semester 1

Internal & external mode

Restriction: Grad Cert, Grad Dip, MPH students

Available for Non-Award Study

Assessment: Assignments

This course offers a broad introduction to occupational health and safety. It will address the relationships between work, work processes and work exposures, and the occurrence of disease and injury. The nature, extent and distribution of work-related death, disease and injury will be considered, with special emphasis on the Australian environment. An important aim is to encourage a critical attitude towards health and safety issues, so that

students will learn to evaluate problems and formulate appropriate preventive measures on the basis of scientific principles. The elective includes an industrial visit.

### **OH&S 7131HO**

#### **Occupational Safety and Statistics**

3 units - semester 2

Internal & external mode

Restriction: Grad Cert, Grad Dip, M.OH & S students

Assessment: To be advised at start of semester

This course develops participants knowledge and skills in relation to three important components of OHS management. These are the investigation and analysis of factors contributing to incidents and accidents; the application of a risk management process to the recognition and control of plant safety risks; and the use and interpretation of data relating to occupational injury, disease and hazardous exposures.

### **OH&S 7132HO**

#### **OHS Law and Risk Management**

3 units - semester 1

Internal & external mode

Restriction: Grad Cert, Grad Dip, M.OH & S students

Assessment: To be advised at start of semester

Historical perspective on socio-legal issues in occupational health and safety; the British factory legislation; Robens Report and other key influences. The Constitutional, common law, statute law and administrative framework for OH&S. Introduction to injury causation; hazard identification, risk assessment and control. Principles and systems for OH&S management.

### **OH&S 7133HO**

#### **Advanced Ergonomics**

3 units - semester 2

2 lectures, 1 tutorial per week, worksite visits

Prerequisite: OH&S 7031

Assessment: Project & report 60%, written assignment 40%

Application of human physiological considerations in ergonomic assessments; identification of ergonomic factors in complex systems; formulation of ergonomic objectives and strategies; implementation of strategies to achieve best practice in ergonomic design of work environments, plant, equipment and processes.

### **OH&S 7134HO**

#### **Advanced Occupational Hygiene**

3 units - semester 1 or 2

Restriction: Grad Dip, M.OH&S students

Assessment: To be advised at start of semester

This elective course deals with advanced topics in the areas of hazard evaluation and control. There will be practical coverage of industrial ventilation, heat stress, noise propagation and control, chemical exposure measurement and laboratory analytical methods. The course includes field visits to illustrate environmental monitoring and control technologies.

## **OH&S 7135HO** **Advanced OHS Management**

3 units - semester 2

Restriction: Grad Dip, M.OH&S students

Assessment: To be advised at start of semester

Identification of symptoms of malfunction in OHS systems; formulating change objectives and strategies for change; structural and behavioural implications in achieving change; implementing and monitoring an OHS change strategy; the nexus with OHS management, quality and productivity initiatives in program implementation.

## **OH&S 7136HO** **Occupational Safety**

3 units - semester 1

Restriction: Grad Cert, Grad Dip, M.OH&S students

Assessment: To be advised at start of semester

For each of the specific hazards of fire and explosion, dangerous goods, electricity and confined spaces the following will be covered: basic concepts, definitions, terminology, nature of hazards; relevant legislation and standards; prevention and control measures; emergency planning and response. Specific high industry cases studies (including mining, construction, farming).

## **OH&S 7137HO** **Occupational Toxicology**

3 units - semester 2

Restriction: Grad Dip, M.OH&S students

Assessment: Assignments 60%, exam 40%

This course will review concepts in chemical toxicology which constitute a rational basis for the setting of chemical exposure standards. It will include an overview of the principles of toxicology, toxicity testing and risk assessment. Examples will be drawn from typical industrial exposure situations.

## **OH&S 7138HO** **OHS Management and Law II**

3 units - semester 2

Restriction: Grad Dip, M.OH&S students

Assessment: To be advised at start of semester

This course will cover OH&S and relevant employment relations legislation. It will explore legal relationships in OH&S including employer/employee; principal/contractor, and supplier/purchaser. It will also address the enforcement pyramid and legal proceedings, OH&S management systems, their elements and their implementation, international and Australian quality standards and their nexus with OH&S.

## **OH&S 7139HO** **OHS Research Methods**

3 units - semester 1

1 lecture, 1 tutorial per week

Restriction: Grad Dip, M.OH&S students

Assessment: To be advised at start of semester

This course aims to give an introduction to research methods in OHS, focusing on the application of epidemiology and biostatistics. Some basic numeracy skills will be required. At the completion of the course the student should be able to understand the applicability of epidemiology to occupational health; grasp basic concepts in epidemiology and statistics; have a basic understanding of quantitative research strategies; be able to identify the appropriate research designs for a particular research question; and be able to appraise critically the occupational health literature which uses epidemiological techniques.

## **OH&S 7140HO** **OHSM Dissertation**

6 units - semester 1 or 2

Internal & external mode

Restriction: Grad Dip, M.OH&S students

Assessment: Examination of written work

The dissertation is an analysis or critical study of an occupational health and safety question. It would normally be based on information collected specifically for this study, although this is not an essential requirement. The dissertation provides students with an opportunity to consider an issue or problem in detail. No minimum length is prescribed, but as a general guide a length of 10-15,000 words might be expected.

A regular series of seminars will be held, at which students will present their research plans or progress.

## **OH&S 7141TB** **Practical Occupational Health**

3 units - semester 2

Restriction: Grad Dip, M.OH&S students

Assessment: Minor assignments 60%, major assignment 30%, participation 10%

This course develops participants skills and knowledge to anticipate, identify and control specific health hazards. Relevant ethical issues, health surveillance, systems for management of work-caused disability and the scope and function of occupational health services are also addressed.

## **OH&S 7142HO** **OH&S Research Thesis**

12 units - semester 1 or 2

Restriction: Grad Dip, M.OH&S students

Prerequisite: PUB HLTH 7139HO

Assessment: Thesis

The thesis should constitute a piece of original research, aiming to test a hypothesis, or to analyse a proposition or concept. This may entail collection of original information, or fresh examination of information collected previously for some other purpose. It should include a thorough literature review, an appropriate methodology, and display a critical approach to the topic. The implications for future research and/or OHS policy should be discussed. A regular series of seminars will be held, at which students will present their research plans and/or progress.

**OH&S 7143AHO/BHO**  
**OHS Research Thesis**

12 units - full year

OHS Research Thesis to be completed over two semesters.

## Oenology

**OENOLOGY 7000EX/7000NW**  
**Introductory Grape and Wine Knowledge**

3 units - semester 1

External, 5 day residential school in mid semester break

Restriction: Postgraduate students in Wine Business

Assessment: Semester written exams, practical tests

This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students

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 7002EX/7002NW**  
**Vineyard and Winery Operations A**

3 units - semester 2

External, 5 day residential school in mid semester break

Restriction: Postgraduate students in Wine Business

Prerequisite: OENOLOGY 7000NW/7000EX

Assessment: Semester written exams, practical tests

This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students

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 7003EX/7003NW**  
**Vineyard and Winery Operations B**

3 units - semester 1

External, 5 day Residential School in Mid Semester Break

Restriction: Postgraduate students in Wine Business

Prerequisite: OENOLOGY 7000NW/7000EX

Assessment: Semester written exams, practical tests & reports

This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students

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 7004WT**  
**Wine Packaging and Quality Management**

3 units - semester 2

2 x 1 hour Lectures, 1 x 4 hour Practical per week

Prerequisite: OENOLOGY 7010WT and OENOLOGY 7047WT

Assessment: Practicals, reports, written assignments & exams

This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students

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 7010WT**  
**Stabilisation and Clarification**

3 units - semester 1

1 x 2 hour Lectures, 1 x 4 hour Practical per week

Prerequisite: OENOLOGY 7028WT

Assessment: Practicals, reports, written assignments, exam

This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students.

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 7019WT**  
**Sensory Studies**

3 units - semester 2

2 x 1 hour Lectures, 1 x 4 hour Practical per week

Assessment: Practical report, tasting tests, group oral presentation, written exam

This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students

This course provides a scientifically based introduction to sensory evaluation and its relationship to the winemaking process, and promotes the development of technically accurate wine assessment skills. The physiology of taste receptors, olfaction and the structure of oral mucosa are examined. Recent advances in knowledge, including the function of signal transduction molecules and protein structure are used to explain current models of flavour, astringency and taste perception. Basic flavour chemistry of grapes and wine is introduced. An introduction to sensory measurement theory, psychophysics, aroma and taste interactions, threshold measurement, and the psychological and physiological factors affecting

perception is presented. The concept of adaptation and its application to the sensory evaluation of wines, and elements of good sensory practice including data collection and statistical analysis are described. The practical program will be used to develop basic skills in sensory assessment of wines leading to the interpretation of wine characteristics in terms of wine style and quality. This is achieved by a progressive development of sensory skills, using model solutions to depict basic tastes and their interaction, followed by a detailed examination of white and red table, fortified and sparkling wines.

### **OENOLOGY 7022WT** **Cellar and Winery Waste Management**

3 units - semester 1

2 x 1 hour Lectures, 1 x 4 hour Practical per week

Prerequisite: OENOLOGY 7028WT

Corequisite: OENOLOGY 7047WT

Assessment: Final exam, practical reports & tutorial papers

This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students

Vintage planning; occupational health and safety, winery record keeping; microbial control, cellar hygiene; winery waste management, environmental management.

### **OENOLOGY 7028WT** **Introductory Winemaking**

3 units - semester 2

1 x 2 hour Lecture, 1 x 4 hour practical, 1 x 1 hour tutorial per week

Assessment: Practical reports, written assignments, written exam

This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students.

Introduction to the Australian wine industry. Chemistry and unit processes of winemaking. Production of table wines, including dry floral fruity white, full bodied white, sweet white, rose, medium and full bodied red wines. Introduction to wine stabilisation and maturation processes.

### **OENOLOGY 7038WT** **Distillation, Fortified and Sparkling Winemaking**

3 units - semester 2

2 x 1 hour Lectures, 2 x 4 hour Practical per week

Prerequisite: OENOLOGY 7028WT, 7019WT & 7022WT

Assessment: Practical reports, assignments, written exam

This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students

Distillation principles and wine distillation practices. Production of Australian and overseas grape spirits for fortified wine and brandy production. Production of potable distilled beverages other than brandy. Legal requirements of fortified wine production and distillation. Production of Australian and overseas sparkling wine styles. Sensory evaluation of spirits, fortified and sparkling wines.

### **OENOLOGY 7045WT** **Industry Experience (Oenology)**

4 units - semester 1

10 weeks work experience

Prerequisite: OENOLOGY 7010WT, 7022WT & 7047WT

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 receive 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 7046WT** **Fermentation Technology**

3 units - semester 2

2 x 1 hour Lectures, 2 x 4 hour Practical per week

Restriction: Grad.Cert/Grad.Dip/Masters Oenology students

Corequisite: OENOLOGY 7028WT and OENOLOGY 7019WT

Assessment: Exam, written work, practical reports, group oral presentations

This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students

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 7047WT** **Winemaking at Vintage**

3 units - semester 1

1 x 2 hour Lecture, 1 x 1 hour Tutorial, 1 x 4 hour Practical per week

Restriction: Grad.Cert/Grad.Dip/Masters Oenology and Grad.Dip/Masters Viticulture students

Prerequisite: OENOLOGY 7028WT and OENOLOGY 7019WT

Corequisite: OENOLOGY 7022WT

Assessment: To be advised

This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students

This practical course provides students with the opportunity to gain hands on winemaking experience over the vintage period. The course introduces students to the planning and managing of winemaking strategies. It covers all aspects of grape processing, white juice preparation and red wine fermentation and is designed to complement the theory covered in the other wine technology courses for table wine production. This course also aims to help students make a considerable progression in the developments of their wine sensory evaluation skills.

## OENOLOGY 7048WT Advances in Oenology

3 units - semester 2

2 x 2 hour Lectures, 1 x 4 hour Practicals per week

Assumed Knowledge: OENOLOGY 7028WT

Assessment: Written exam, reports on practical exercises, industry visits

This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students

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.

## Pharmacology

### PHARM 7009AEX/BEX Alcohol & Drug Studies Dissertation (F/T)

24 units - full year

Flexible Learning Mode

Restriction: M.A & D St. students

Prerequisite: completion of M.A & D.St. coursework

Assessment: Dissertation

This course needs to be undertaken over two semester to fulfil the requirements of the dissertation. The student is required to identify a research question or problem and carry out a research project which is either experimentally based or is a case study series. The dissertation should include a thorough literature review, appropriate methodology as well as presentation and interpretation of results.

### PHARM 7011EX Drugs and Drug Problems

6 units - semester 1 or 2

Flexible learning mode

Assessment: Exams, assignments

Students will learn how drugs affect the body and behaviour. This will include general principles of drug action, pharmacokinetics and variability in drug response, pharmacology of the major drug classes (opioids, benzodiazepines, alcohol, stimulants, 'party drugs', nicotine, hallucinogens and cannabis) and consequences of their use. Students will also be introduced to neurological mechanisms of drug tolerance and dependence and learn why addiction occurs and what aspects of genetics, personality and social circumstances predispose to drug problems.

### PHARM 7012EX Responses to Drug Problems

6 units - semester 1 or 2

Flexible learning mode

Assessment: exam, assignments

This course will provide an overview of the current approaches to the management of drug problems in the community, including the treatment of drug dependence, population health approaches and the response of the legal system. Students will be introduced to the full range of treatments for drug problems, from management of overdoses to psychosocial interventions and withdrawal management. Currently available pharmacotherapies used in the treatment of drug dependence, including substitution treatment and relapse prevention will also be discussed. At the community level, students will examine public health and legal responses to drug problems and look at what prevention and education strategies can be implemented to reduce alcohol and other drug problems in society.

### PHARM 7013EX Issues in Drug Policy and Management

6 units - semester 1

Flexible learning mode

Assessment: Exam, assignments

This course will have three major components. The first will cover two important subpopulations: those with co-morbid drug and mental health problems and indigenous drug users. The second will cover forensic issues, including crime resulting from drug intoxication and drug detection in body fluids. In the third, students will critically assess the current national policies on alcohol, tobacco and illicit drugs.

### PHARM 7014EX Contemporary Research in Alcohol & Other Drugs

6 units - semester 2

Flexible learning mode

Assessment: Exam, assignments

Students will be required to write a literature review on a contemporary research topic in the alcohol and other drug field, approved by the course coordinator. To help students critically examine the existing literature, the course will also provide an overview of the fundamental concepts of research methodology and statistical analysis.

### PHARM 7015EX Introduction to Addiction

4 units - trimester 3

Online learning mode

Restriction: M.Science in Addiction studies only

Assessment: Exam, assignments

This course/module is designed to provide an overview of the neuropharmacology of drugs of abuse and dependence, including basic principles of drug action as well as comprehensive coverage of the major classes of drugs (opioids, stimulants, nicotine, alcohol, sedatives, cannabis, hallucinogens). You will study mechanisms of

action, effects, pharmacokinetics as well as tolerance and dependence for each of these drugs/drug classes. The reasons for addiction including biological, genetic, cultural and other determinants will be discussed. You will learn about laboratory based methods used in addiction research.

### **PHARM 7016EX**

#### **Public Health Issues and Approaches to Addiction**

4 units - trimester 3

Online learning mode

Restriction: M.Science in Addiction Studies only

Assessment: Exam, assignments

This course/module provides an introduction to basic concepts and research methods in Public Health and Epidemiology as they relate to the study of addictions, as well as an in-depth consideration of the personal, social, economic, and cultural burdens/costs associated with drug and alcohol abuse and dependence. Individual and community-based risk and protective factors related to addictions and primary and secondary prevention efforts aimed at reducing the addictions-related public health burden are also a focus. An online lecture format featuring presentations by leading researchers and policymakers in the field of addictions will be used, along with readings, online discussions, and writing assignments, to (1) gain a greater understanding of the enormous costs of addictions at every level of society, and (2) introduce students to some of the current thinking and programs related to the primary and secondary prevention of addictions.

### **PHARM 7017EX**

#### **Treatment of Addiction: Pharmacotherapies**

4 units - trimester 3

Online learning mode

Restriction: M.Science in Addiction Studies only

Assessment: Assignment and exam

This course is designed to provide an overview of the pharmacological management of alcohol and drug addiction. It will cover the management of withdrawal from alcohol, sedatives, opioids, cannabis and stimulants as well as long term management of dependence on opioids, tobacco and alcohol. Additional topics include international perspectives on management of dependence, management of dependence during pregnancy and the process of medication development.

### **PHARM 7018EX**

#### **Treatment of Addiction: Psychosocial Interventions**

4 units - trimester 1

Online learning mode

Restriction: M.Science in Addiction Studies only

Assessment: Assignment and exam

This course/module is designed to explore the scientific basis and treatment of substance misuse from a psychological perspective germane to the management of drug, alcohol and nicotine dependence. Students will have the opportunity to evaluate the principles of

different theoretical approaches underlying psychological assessment and evidence-based practice.

During this course/module students will develop a critical awareness of the current literature related to psychological theories of addiction. Students will examine the use and comparative efficacy of different psychological therapies in clinical practice including brief interventions, Cognitive Behavioural Therapy and Motivational Interviewing /MET. Other interventions (case management, group work, self help, integrated treatment for co-occurring disorders etc) will also be examined along side the evidence base for Relapse Prevention, Contingency Management and Therapeutic Communities. Students will also have the opportunity to explore psychological approaches used with specialist populations such as young people and adolescents.

### **PHARM 7019EX**

#### **Treatment of Addiction: Critical Issues**

4 units - trimester 1

Online learning mode

Restriction: M.Science in Addiction Studies only

Assessment: Assignment and exam

This course/module is designed to enable students to gain advanced understanding of the critical issues involved in the identification, recruitment, assessment, diagnosis and classification of individuals who misuse substances. Local, national and international barriers to treatment (stigma, culture, religion, politics, legal issues, civil commitment, cost, attitudes and beliefs) will be considered. Students will explore and critically examine treatment options in special settings (for instance, prisons, criminal justice and employment) and in special populations (for instance, addicted healthcare professional, co-morbid patients, pregnancy).

### **PHARM 7020EX**

#### **Addiction Policies**

4 units - trimester 1

Online learning mode

Restriction: M.Science in Addiction Studies only

Assessment: Assignment and exam

This course/module is designed to provide students of differing backgrounds an understanding of the process by which international addiction health policy is formed and reformed around the use and misuse of both licit and illicit drugs. The course/module will look at the epidemiology of addiction around the world and the relationship between the burden of addiction and the corresponding effects of national and international drug policies.

### **PHARM 7021EX**

#### **Research Methodology in Addictions**

6 units - trimester 2

Online learning mode

Restriction: M.Science in Addiction Studies only

Assessment: Assignment and exam



This course/module is designed to enable students to develop knowledge and understanding of the different methodological processes underpinning research in the addictions. The research principals involved in hypothesis testing and estimation procedures will be covered as well as the generic skills necessary to analyse data and interpret statistical findings. Basic epidemiological study designs, policy analysis and inferential statistical methods will be explored pertinent to the addictions field.

### **PHARM 7022EX** **Research Project in Addictions**

6 units - trimester 2

Online learning mode

Restriction: M.Science in Addiction Studies only

Assessment: Research report 10,000 words

This course/module is designed to allow students to participate in the research process. Students will be given the opportunity under supervision to complete a small research project. The submitted written text will be a minimum of 10,000 words in length, and is required to demonstrate a critical knowledge of the chosen topic area. The ability to apply scientific scrutiny to a topic related to aspects of drug and alcohol aetiology, treatment, prevention, public health or policy as identified by the programme team will be required. The research project may involve original data collection, secondary analysis of previously collected data sets, or other quantitative or qualitative research methods. The necessary defining feature is that the research project should demonstrate an appropriate level of academic rigor and understanding of the scientific implications of the findings of the project. Students will need to demonstrate competence in the integration and analysis of data to further the translation of this knowledge into more effective policies and practices, in keeping with the stated aims of the program.

## **Philosophy**

### **PHIL 5000** **Applied Ethics**

6 units - semester 1

Restriction: Postgraduate coursework students

Assessment: 8000 word essay

This course is a Masters level introduction to ethics and its application to various controversial issues. Students will be introduced to the major approaches in normative ethics - theories which focus on the consequences of actions, on peoples' rights and duties, or on good moral character - and the main points of difference between them. This will give students some essential tools with which to tackle issues in applied ethics and provide insight into the influence of normative positions in debates about controversial moral questions. The course will then apply these normative tools to a series of current issues of significance in applied ethics. Topics will include debates in medical ethics and bioethics, media ethics, ethics

in public policy decision-making, and ethical issues in international relations. The aim will be to identify what is at stake in these debates, revealing the underlying theoretical issues that must be resolved and helping students to clarify and defend their own ethical views.

The course will be taught by a team bringing together expertise in ethics and relevant professions from a range of disciplines in the three South Australian universities.

### **PHIL 5001** **Topic in Philosophy**

6 units - semester 2

Restriction: Permission of Program Convenor

Content of course to be determined in consultation with Program Convenor.

## **Physics**

### **PETROL 7000** **Petroleum Geology & Geophysics (B)**

### **PETROL 7001** **Petroleum Geology and Geophysics (A)**

6 units - semester 1

Depending on the nature of previous studies and experience, students may be granted some exemptions, required or permitted to substitute alternative studies for some topics, or required to take additional studies.

PETROL 7000 & 7001 form an integrated five month program of short courses presented back-to-back, and provide a thorough grounding in the many facets of petroleum geoscience. They include fundamental topics such as basin analysis, sedimentology, diagenesis, sequence stratigraphy and structural geology. Most of these courses are revised during a field trip to Central Australia. Geophysical topics include seismic interpretation, seismic acquisition and processing. Other tools and techniques used in petroleum geoscience are covered in courses such as wireline logging, petrophysics and wellsite geology.

There is some scope for specialisation between geology and geophysics, but the majority of the topics form a core curriculum taken by all students. Geologists may do thermal maturation and basin modelling, core description and petroleum geochemistry while geophysicists concentrate on seismic acquisition, signal analysis and seismic processing. Topics encouraging the development of non-technical skills include economics, management and communication skills. Many of the topics covered above are drawn together in case studies from the petroleum industry. For details of the program see [www.asp.adelaide.edu.au](http://www.asp.adelaide.edu.au)

Note: PETROL 7000 & 7001 cannot be taken separately

**PETROL 7002**  
**Research Project (M.Sc. Petroleum Geoscience)**

12 units - semester 1 or 2

Assessment: Research project, report, oral exam

Supervised research project in an agreed area of petroleum geoscience.

**PHYSICS 7002**  
**Advanced Astrophysics**

3 units - semester 1 or 2

Available for Non-Award Study

A survey of the Universe at all scales and wave lengths/energies. Studies of the interstellar medium and magnetic fields. Cosmic ray acceleration and propagation; pulsars, gamma-ray astrophysics; radio and x-ray astronomy.

**PHYSICS 7003**  
**Advanced Atmospheric and Environmental Physics**

3 units - semester 1 or 2

Available for Non-Award Study

A review of radiation and fluid dynamics including the role of waves in planetary atmospheres and ionospheres.

**PHYSICS 7004**  
**Advanced Electromagnetism**

3 units - semester 1 or 2

Available for Non-Award Study

Boundary value problems, with applications to electrostatics and magnetostatics, time varying fields, and radiating systems.

**PHYSICS 7007**  
**Experimental Methods**

3 units - semester 1 or 2

Available for Non-Award Study

An introduction to statistical and Fourier techniques, with applications to experimental design and data analysis.

**PHYSICS 7008**  
**Gauge Theory**

3 units - semester 1 or 2

Available for Non-Award Study

An introduction to quantised non-Abelian gauge theories, including Feynman diagrams, weak models, and quantum chromodynamics.

**PHYSICS 7009**  
**General Relativity**

3 units - semester 1 or 2

Available for Non-Award Study

An outline of differential geometry with applications to General Relativity, including the Schwarzschild solutions, weak fields and gravitational waves.

**PHYSICS 7010**  
**Non-Linear Optics**

3 units - semester 1 or 2

Available for Non-Award Study

A review of laser physics and an introduction to non-linear optical phenomena with applications.

**PHYSICS 7011**  
**Nuclear and Radiation Physics**

3 units - semester 1 or 2

Available for Non-Award Study

Production, transmission and measurement of ionising radiation, with medical and environmental applications, taught from experimental viewpoint.

**PHYSICS 7013**  
**Quantum Field Theory**

3 units - semester 1 or 2

Available for Non-Award Study

Photons and the electromagnetic field, Lagrangian field theory and Klein-Gordon field, the Dirac field and photons: co-variant theory, the S-matrix expansion, Feynman diagrams and rules in QED; QED processes in lowest order, radiative corrections.

**PHYSICS 7014**  
**Relativistic Quantum Mechanics & Particle Physics**

3 units - semester 1 or 2

Available for Non-Award Study

Relativistic wave equations, including Dirac equations, spinors, and introduction to field quantisation.

**PHYSICS 7016**  
**Research Project (M.Sc. Physics)**

12 units - semester 1 or 2

Supervised research project, usually in the same area as the advanced topic selected for PHYSICS 7017 Advanced Topic in Physics.

**PHYSICS 7017**  
**Advanced Topic in Physics**

6 units - semester 1 or 2

Supervised reading: a review of contemporary developments and research in applied physics, astrophysics, atmospheric physics, optics and lasers or theoretical physics.

**PHYSICS 7024**  
**Topics in Mathematical Physics A**

3 units - semester 1 or 2

Supervised reading: a review of contemporary developments and research in mathematical physics.

## PHYSICS 7025

### Topics in Mathematical Physics B

3 units - semester 1 or 2

Supervised reading: a review of contemporary developments and research in mathematical physics.

## PHYSICS 7026

### Computational Physics

2 units - semester 1

2 lectures per week, 1 hour tutorial per week

Available for Non-Award Study

Prerequisite: PHYSICS 2100 or 2004, APP MATHS 2000 & 2002 - other students may apply to Head of Physics for exemption

Assumed Knowledge: APP MTH 1000 or COMP SCI 1008 or equivalent

Incompatible: PHYSICS 3000

Assessment: Assignments, exam

This course involves teaching sessions that may be attended by both UG and PG students

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 7027

### Electromagnetism and Optics

3 units - semester 1

3 lectures, approx. 1 tutorial per week

Available for Non-Award Study

Prerequisite: PHYSICS 2100 and 2200, APP MATHS 2000 & 2002 - other students may apply to Head of Physics for exemption

Assumed Knowledge: PHYSICS 2002

Incompatible: PHYSICS 3001, PHYSICS 3018, PHYSICS 3019, PHYSICS 7042 and PHYSICS 7044

Assessment: Exam, continuous assessment of tutorial work

This course involves teaching sessions that may be attended by both UG and PG students

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, 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 7028

### Experimental Physics

3 units - semester 2

8 hours practical work per week

Available for Non-Award Study

Prerequisite: PHYSICS 2100, Physics IIA, PHYSICS 2200 Physics IIB

Incompatible: PHYSICS 3002

Assessment: Laboratory work, formal report on selected experiment, open & closed book tests

This course involves teaching sessions that may be attended by both UG and PG students

Laboratory experiments in selected areas including atomic and nuclear physics, optics and electromagnetism, plus a practical analogue electronics course.

## PHYSICS 7030

### Quantum Mechanics A

3 units - semester 1

3 lectures, approx. 1 tutorial per week

Available for Non-Award Study

Prerequisite: PHYSICS 2100 or PHYSICS 2004, APP MATHS 2000 and APP MATH 2002 - other students apply to Physics Head for exemption

Assumed Knowledge: PHYSICS 2002

Incompatible: PHYSICS 3004

Assessment: Exam, assignment, tests

This course involves teaching sessions that may be attended by both UG and PG students

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 7032

### Advanced Dynamics and Relativity

3 units - semester 2

3 lectures, approx. 1 tutorial per week

Available for Non-Award Study

Prerequisite: PHYSICS 2002 or PHYSICS 2000A/B in 2002 or 2003, PHYSICS 2001, APP MTH 2000 and APP MTH 2002 - other students may apply to Head of Physics for exemption

Incompatible: PHYSICS 3006

Assessment: Assignment, exam

This course involves teaching sessions that may be attended by both UG and PG students

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 7035 Statistical Mechanics

2 units - semester 1

2 lectures per week, 1 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

Incompatible: PHYSICS 3009

Assessment: Exam, assignments

This course involves teaching sessions that may be attended by both UG and PG students

This course introduces concepts essential for the understanding of both classical and quantum statistical mechanics. Topics covered include the classical laws of thermodynamics and their application, postulates of statistical mechanics, statistical interpretation of thermodynamics, microcanonical, canonical and grand canonical ensembles. The methods of statistical mechanics are then used to develop the statistics for Bose-Einstein, Fermi-Dirac and photon gases. Selected topics from low temperature physics and electrical and thermal properties of matter will be discussed.

## PHYSICS 7040 Astrophysics

2 units - semester 1

2 lectures per week, approx. 1 tutorial per fortnight

Available for Non-Award Study

Prerequisite: PHYSICS 2100 and PHYSICS 2200 - other students may apply to Head of Physics for exemption

Incompatible: PHYSICS 3013

Assessment: Written exam, tutorials, marked assignments

This course involves teaching sessions that may be attended by both UG and PG students

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 7041 Atmospheric & Environmental Physics

2 units - semester 2

2 lectures per week, approx. 1 tutorial per fortnight

Available for Non-Award Study

Prerequisite: PHYSICS 2100 and PHYSICS 2200 - other students may apply to Head of Physics for exemption

Incompatible: PHYSICS 3014

Assessment: Written exam, marked assignments

This course involves teaching sessions that may be attended by both UG and PG students

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 7042 Electromagnetism

2 units - semester 1

24 lectures, 4 tutorials

Available for Non-Award Study

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, 3018, 3019, 7027 & 7044

Assessment: Exam, continuous assessment of tutorial work

This course involves teaching sessions that may be attended by both UG and PG students

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 7043 Photonics

2 units - semester 2

2 lectures per week, approx. 1 tutorial per fortnight

Available for Non-Award Study

Prerequisite: PHYSICS 2100, PHYSICS 2200 and PHYSICS 2009 Photonics II - other students may apply to the Head of Physics for exemption

Assumed Knowledge: PHYSICS 3018 or PHYSICS 3001

Incompatible: PHYSICS 3020

Assessment: Exam, continuous assessment of tutorial work

This course involves teaching sessions that may be attended by both UG and PG students

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 7044** **Physical Optics**

2 units - semester 1

24 lectures, 4 tutorials

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 3018

Incompatible: PHYSICS 3001, PHYSICS 3018, PHYSICS 3019, PHYSICS 7027 Electromagnetism and Optics and PHYSICS 7042 from 2006

Assessment: Exam, continuous assessment of tutorial work

This course involves teaching sessions that may be attended by both UG and PG students

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 7100** **Diploma Project (Physics) A**

6 units - semester 1 or 2

Assessment: Report & seminar

Supervised research project in physics.

## **PHYSICS 7102** **Mathematical Physics Diploma Project A**

4 units - semester 1 or 2

Assessment: Report & seminar

Supervised research project in mathematical physics.

## **PHYSICS 7104** **Electronics for Data Acquisition**

3 units - semester 1

1 x 3 hour practical per week

Available for Non-Award Study

Assessment: Practical work, Practical exam

This course provides an introduction to analogue and digital electronics used for signal conditioning, data acquisition and experiment control in experimental and applied physics. It includes applications of operational amplifiers, comparators, digital gates and flip-flops, astable and monostable multivibrators, digital to analog converters, analog to digital converters, and PIC (peripheral interface controller) chips.

## **PHYSICS 7200** **Diploma Project (Physics) B**

6 units - semester 1 or 2

Assessment: Research project, report and seminar

Supervised research project in physics.

## **PHYSICS 7202** **Mathematical Physics Diploma Project B**

2 units - semester 1 or 2

Assessment: Research project, report and seminar

Supervised research project in mathematical physics.

## **PHYSICS 7207** **Quantum Mechanics B**

2 units - semester 2

2 lectures per week, 1 tutorial per fortnight

Available for Non-Award Study

Prerequisite: PHYSICS 3004, PHYSICS 2002, 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 7031 and PHYSICS 3005

Assessment: Exam, tutorial work, tests

This course involves teaching sessions that may be attended by both UG and PG students

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 7209** **Photonics P**

3 units - semester 2

2 lectures & 3 hour practical per week, 1 tutorial per fortnight

Prerequisite: PHYSICS 2100, PHYSICS 2200, PHYSICS 2009 - Other students may apply to Head of Physics for exemption.

Assumed Knowledge: PHYSICS 3018

Incompatible: PHYSICS 7043

Assessment: Exam, marked assignments, laboratory work, formal report

This course involves teaching sessions that may be attended by both UG & PG students - assessment for PG students will have separate, more rigorous criteria & practical component will be separately organised

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.

# Plant Science

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## PLANT SC 7004WT

### Mineral Nutrition of Plants

3 units - semester 2

1 x 2 hour Lecture, 1 x 4 hour Practical per week

Prerequisite: PLANT SC 2001WT, ENV BIOL 2003 or APP ECOL 1003RW or equivalent undergraduate courses in Biology or Botany

This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students

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 7012WT

### Biotechnology in the Food and Wine Industries

2 units - semester 1

1 x 2 hour Lecture, 1 x 1 hour Tutorial, 1 x 4 hour Practical per week

Assumed Knowledge: BIOCHEM 2106 or equivalent

Assessment: Practical reports, presentation, written exam

This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students

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 7013WT

### Plant Molecular Biology

6 units - semester 2

1 x 3 hour Lecture, 1 x 1 hour Tutorial, 1 x 4 hour Practical per week

Assumed Knowledge: BIOCHEM 2105, ANIML SC 2029WT or BIOCHEM 2000A/B or equivalent

Assessment: Practicals, tutorial projects, research plant & review, final exam

This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students

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 7020WT

### Strategies & Practices for Pest Management & Eradication

3 units - semester 1

6 x 1 hour Lectures, 3 x 2 hour Class Exercises, 2 x 4 hour Practicals per week for 3 weeks

Restriction: Grad Cert/Grad Dip./M.Plant Hlth, other students by approval of program coordinator

Assumed Knowledge: PLANT SC 7201WT

Assessment: Final exam, tutorials, assignments & reports

This course considers some key factors in the development and implementation of practices for pest management and eradication. It considers pest identification, sampling and surveillance, decision-making, pesticide chemistry and application, and the design and evaluation of integrated pest management programs, including pest eradication.

## PLANT SC 7021AEX/BEX

### Integrated Weed Management

3 units - full year

Presented Online

Prerequisite: PLANT SC 7021AEX

Assessment: Part of PLANT SC 7141AEX

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 7022EX

### Invasion Biology: Foundations of Biosecurity

3 units - semester 2

External

Available for Non-Award Study

Assessment: Major project, Practical reports, online quizzes

An understanding of invasion biology provides a foundation for the principles and practices of biosecurity. This course will consider case studies of insects, plant diseases and weeds that have invaded ecosystems. This will lead to a consideration of the ecological theory that applies to biological invasions, including colonisation and propagule pressure, population growth, predator-prey and pathogen host interactions, Allee effects and population viability, the factors that affect the spread of invasive species, and the genetics and evolution of founding populations. The biological and ecological factors that influence the impact of invasive species will be evaluated.

## PLANT SC 7023EX

### Biosecurity Plant Pests: Weeds

3 units - semester 2

External

Available for Non-Award Study

Assessment: Major project, two essays, online quizzes

This course will consider: Weed ecology, and the invasion biology of plant species. The biology, ecology of weeds, including "sleeper weeds". Weed surveillance strategies. Weed identification. Weed eradication and containment. Successful and unsuccessful weed eradication programs. Weed management principles and weed control strategies in relation to eradication and containment of invasive weeds. The course will be delivered in external mode.

## PLANT SC 7120WT

### Molecular Diagnostic Methods in Plant Health

3 units - semester 2

2 x 4 hour Class Exercises, 3 x 4 hour Practicals per week for 3 weeks

Restriction: Grad Cert/Grad Dip/.M.Plant Hlth & BioSec, other students by approval of program coordinator

Assumed Knowledge: PLANT SC 7220WT

Assessment: Final exam, practical & site visit protocols, project reports

This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students

Molecular and biochemical diagnostic methods target unique components of plant pathogens. These methods are now critical for the accurate identification of all disease agents. They have the advantages of sensitivity, reliability, efficiency and speed. They currently complement classical diagnostic methods but in some cases are the only practical way to identify pathogens. They utilise the principles of molecular biology and therefore new techniques are constantly evolving. This course will explain the principles of the use of immunology and pathogen genome nucleotide sequence information in plant pathogen diagnosis. Practical work in immunology will include a range of antibody-based diagnostic tests, and students will be encouraged to compare various methods for relevance to a number of problems. Practical work in nucleic acid based methods will include hybridisation, PCR, sequence comparisons, again with an evaluation of the appropriateness of specific techniques for addressing specific problems in pathogen diagnosis.

## PLANT SC 7121WT

### Biosecurity and Incursion Management

3 units - semester 2

4 x 2 hour lectures, 3 x 2 hour class exercises, 2 x 3 hour practicals per week for 6 weeks

Restriction: Grad Cert/Grad Dip/.M.Plant Hlth & BioSec, other students by approval of program coordinator

Assumed Knowledge: PLANT SC 7220WT

Assessment: Final exam, tutorials, assignments, reports

This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students

Natural and agricultural ecosystems are under siege by many harmful species of plants, animals and diseases.

This course deals with emergency plant pests and biosecurity issues related to the biological characteristics of invasive species, dis-infection and hygiene in trade, surveillance and detection of exotic organisms, quarantine, risk assessment and risk management, and the containment and eradication of exotic organisms. The students will examine case studies, where invasions threaten biological diversity by causing population declines of native species and agricultural production systems. Particular emphasis is on the fact that the problem is a global one and that the exotic species problem is neither trivial nor transitory. Students will learn how to employ and integrate new methods from a large management tool box: eradication, containment, biocontrol, monitoring, and, most importantly, prevention. Strong emphasis is on mathematical approaches to risk management, decision-making tools and normative and specialised risk analysis. The course will review and discuss existing and emerging legislation and regulatory controls, the role of national and international agencies and the function of networks in extension disaster education.

## PLANT SC 7122WT

### Management and Regulation in Plant Health

3 units - semester 2

3 x 2 hour Lectures, 3 x 3 hour Class Exercises per week for 3 weeks

Restriction: Grad Cert/Grad Dip/.M.Plant Hlth & BioSec, other students by approval of program coordinator

Assumed Knowledge: PLANT SC 7220WT

Assessment: Major project, tutorials, reports

This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students

This course will consider the legislative and regulatory frameworks that influence plant health in Australia and internationally. This will include Australia's obligations under international treaties and protocols as well as national regulations such as the weed risk assessment process. Students will consider issues surrounding of market access for plant products, including the management of quarantine. The course will also cover risk management for genetically modified crops including protocols used in Australia and other countries. Students will conduct a major project focussed on a current problem of their choice in quarantine, market access or risk management of genetically modified organisms.

## PLANT SC 7123WT

### Applications of Plant Biotechnology in Production

3 units - semester 2

3 x 1 hour Lectures, 1 x 2 hour Tutorial, 1 x 3 hour Class Exercise per week for 6 weeks

Restriction: Grad Cert/Grad Dip/.M.Biotech.(Plant Biotech), other students by approval of program coordinator

Assumed Knowledge: PLANT SC 7225WT and PLANT SC 7226WT

Assessment: Reports, assignments

This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students

In addition to the currently commercial applications of plant biotechnology, such as insecticide synthesis

and herbicide resistance, there is a large number of other potential applications of plant biotechnology to enhance plant productivity and quality. In this course, a range of potential applications will be investigated, and the implications of the deployment of this powerful technology discussed. The effects of biotechnology on reducing inputs and increasing or altering outputs will be covered. Yield increase and yield maintenance will be compared, and the influence of biotechnology on quality traits will be studied. Students will look at alterations in disease resistance, abiotic stress tolerance, crops for biofuels, and crops as future factories.

### **PLANT SC 7124WT** **Applications of Plant Biotechnology in Health & Nutrition**

3 units - semester 2

3 x 2 hour Lectures, 4 x 1 hour Tutorials, 3 x 2 hour class exercises per week for 3 weeks

Restriction: Grad Cert/Grad Dip/M.Biotech.(Plant Biotech), other students by approval of program coordinator

Assumed Knowledge: PLANT SC 7225WT and PLANT SC 7226WT

Assessment: Reports, assignments

This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students

Plant biotechnology has an extraordinary capacity to increase the quality of food, both by enabling the exploitation of existing variation more efficiently, and by generating novel variation beyond that available in extant gene pools. The most famous example of this is 'Golden Rice', where enhanced synthesis of beta-carotene in rice endosperm increased the nutritional value of milled rice. In this course, the range of these potential applications will be investigated, and the implications of the deployment of this powerful technology discussed. The effects of biotechnology on increasing micronutrient levels, increasing digestibility, decreasing pathogenicity, carcinogenic properties, diabetes prevalence, etc will be covered. The use of crops for production of pharmaceuticals, vaccines and other medically useful compounds will also be investigated.

### **PLANT SC 7125WT** **Management, Commercialisation & Regulation in Plant Biotechnology**

3 units - semester 2

5 x 1 hour lectures, 2 x 2 hour tutorials, 2 x 3 hour class exercises per week for 3 weeks

Restriction: Grad Cert/Grad Dip/M.Biotech.(Plant Biotech), other students by approval of program coordinator

Assumed Knowledge: PLANT SC 7225WT

Assessment: Tutorials, assignments, reports

This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students

Plant biotechnology is seen by different groups as a potential source of substantial revenue, as a key tool in maintaining world food production, or as a potential cause of major environmental problems. This course will examine the issues related to revenue capture from plant biotechnology, in particular aspects of the generation and management of intellectual property including patents,

plant breeders' rights and germplasm exchange. The risk management and regulation of plant biotechnology both within Australia and overseas will be covered and discussed in conjunction with related regulation on quarantine and food safety. This course will also consider the funding and management of plant biotechnology research and development. This will include funding from public and private sources, related issues of valuation of intellectual property and germplasm, and marketing.

### **PLANT SC 7126WT** **Techniques in Plant Biotechnology**

3 units - semester 2

2 x 4 hour practicals, 1 x 3 hour tutorial over 6 weeks

Restriction: Grad Cert/Grad Dip/M.Biotech.(Plant Biotech), other students by approval of program coordinator

Assumed Knowledge: PLANT SC 7225WT and PLANT SC 7226WT

Assessment: Practical reports

This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students

Recent advances in techniques for gene discovery and analysis have revolutionised the options available for the investigation of plant development, responses to disease and abiotic stresses and to engineer plants with new properties. This course will provide an opportunity for students to learn and try out key new methods for plant genomics and biotechnology. This will include techniques for transcript profiling using microarrays and quantitative PCR, the use of large insert DNA libraries and genetic data for positional cloning, metabolomics and proteomics including protein modelling, in situ localisation of mRNA and proteins, new methods for plant transformation and a range of bioinformatics tools and applications that underpin the various techniques. The bioinformatics component will also teach students how to use key genomics databases and resources.

### **PLANT SC 7130WT** **Plant Pathology**

3 units - semester 1

1 x 2 hour Lecture, 1 x 4 hour Practical per week

Assumed Knowledge: PLANT SC 2004WT, PLANT SC 2003WT and ENV BIOL 2006

Assessment: Written exam, practical exercises, critical review, mini-internship

This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students

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 7131WT Integrated Pest Management A**

3 units - semester 1

1 x 2 hour Lecture, 1 x 4 hour Practical per week, 3 x 4 hour computer exercises per semester

Assessment: Exam, practical exercises, assignments

This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students

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 7220WT Foundations of Plant Health**

6 units - semester 1

5 x 1 hour Lectures, 4 x 2 hour Class Exercises, 2 x 3 hour Practicals per week for 6 weeks

Restriction: Grad Cert/Grad Dip/M Plant Hlth, other students by approval of program coordinator

Incompatible: PLANT SC 7225WT

Assessment: Final exam, mid-course exams, project-based exercises

This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students

In this course, the interplay between the plant, environmental conditions and other organisms within the plant's environment will be explored with a particular emphasis on what organisms and abiotic stresses cause disease, how they cause disease, why that disease occurs and the economic, environmental and social implications of disease. Students will learn about resistance and tolerance strategies employed by the plants when challenged by biotic and abiotic stress. The subsequent induction of a wide variety of responses will be explored in this course and the use of this information to breed for tolerance and/or resistance to biotic and abiotic stresses will be discussed. The course also provides the biological information and background required to devise strategies to adapt to or avoid potentially crippling environmental stresses as well as to devise pest management strategies. Case studies on specific plant-pathogen interactions, plant-pest interactions, abiotic stresses, herbicide

damage and interactions essential to plant health will be presented. The course will include a description of appropriate biometrical methods needed to design, summarise and analyse experiments and an introduction to the different forms of scientific communication available to present results to different target audiences.

### **PLANT SC 7221WT Classical Diagnostic Methods in Plant Health**

3 units - semester 2

3 x 2 hour Lectures per week, 2 x 4 hour Practicals per week, 1 x 2 hour Practical per week, 2 x 2 hour Class Exercise per week for 3 weeks.

Restriction: Grad Cert/Grad Dip/M.Plant Hlth & BioSec, other students by approval of program coordinator

Assumed Knowledge: PLANT SC 7220WT

Assessment: Final exam, tutorials, assignments, reports

This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students

Plant health may be compromised by biotic factors, such as pathogens, arthropod pests and weeds, and by abiotic factors, such as nutrient deficiency and herbicide damage. This course focuses on the detection and diagnosis of diseases, arthropod pests and abiotic disorders in crops and natural ecosystems. Students will learn how to recognise symptoms and signs of damage in the field, assess the incidence and severity of the damage and collect appropriate samples for subsequent diagnosis in the laboratory. Laboratory-based diagnosis will involve detailed examination of specimens, including microscopic studies of symptomatic plant material and pests, where appropriate following incubation to induce sporulation of fungal pathogens. Methods for culturing microbial pathogens will be explored, including the use of selective media and the establishment and maintenance of pure cultures. Identification of pathogens and pests on the basis of morphology and, where appropriate, cultural characteristics, will be undertaken. Koch's postulates will be used to prove the pathogenicity of selected organisms. Students will examine case studies of selected diseased and disorders. Throughout the course, attention will be given to the development of skills in verbal and written communication.

### **PLANT SC 7222WT Advanced Principles Pest Management & Biosecurity**

3 units - semester 1

6 x 1 hour Lectures, 3 x 2 hour Class Exercises, 2 x 4 hour Practicals per week for 3 weeks

Restriction: Grad Cert/Grad Dip/M Plant Hlth & BioSec, other students by approval of program coordinator

Assumed Knowledge: PLANT SC 7220WT

Assessment: Final exam, tutorials, assignments, reports

Effective management of pests in a variety of systems (broad-acre crops, fruits, vegetables and international trade) is founded on an understanding of the ecological, economic and sociological factors that influence pest populations and the effectiveness of management practices. This course considers fundamental ecological topics that include population dynamics of pest

organisms, pest movement and invasion biology, population modelling, and resistance of plants to pest attack. Non-chemical approaches to pest suppression such as biological controls, resistant plant varieties, cultural practices, mating disruption by pheromones, and sterile insect technique are covered in this course.

### **PLANT SC 7223AWT/BWT Extended Research Project (Plant Health)**

24 units - full year

Restriction: M.Biotech.(Plant Biotech.), M.Plant Hlth

Prerequisite: Students must qualify for the relevant Graduate Diploma

Assessment: Literature review, Scientific manuscript, Seminar presentation

This course focuses on a research project that is carried out over 10 months. Students also develop advanced communication skills in tutorial sessions. This aspect focuses on written and oral communication as they relate to the plans and results of the project. Each student reports the results of their research in a scientific manuscript for publication.

### **PLANT SC 7224WT Research Project (Plant Health)**

12 units - semester 1

3 hour tutorial

Restriction: M.Biotech.(Plant Biotech.), M.Plant Hlth

Prerequisite: Qualification in relevant grad.dip.

Assessment: Literature review & project proposal, Scientific manuscript, Seminar presentation

This course focuses on a research project that is carried out over five months. Students also develop advanced communication skills in tutorial sessions. This aspect focuses on written and oral communication as they relate to the plans and results of the project. Each student reports the results of their research in a scientific manuscript for publication.

### **PLANT SC 7225WT Foundations of Plant Biotechnology**

6 units - semester 1

5 x 1 hour lectures, 3 x 2 hour class exercises, 2 x 3 hour practicals per week for 6 weeks

Restriction: Grad Cert/Grad Dip/Masters of Plant Biotechnology, other students by approval of program coordinator

Incompatible: PLANT SC 7220WT

Assessment: Final exam, project-based exercises

This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students

In this course, students will explore the basic concepts central to understanding how genotype contributes to phenotype in plants. The emphasis will be on how factors at the cellular level contribute to the expression of genotypes and hence to phenotypic variation, and how plant breeding can be used to exploit genetic variation to develop and/or select genotypes that are superior for specific purposes. The course will provide an introduction to plant physiology, molecular biology, basic genetics and plant breeding. Students will learn how to

use biotechnology to study genotypic and phenotypic variation with particular reference to the impact of the environment on resource capture, growth, development and reproduction in plants. Case studies for plant breeding strategies, gene expression/regulation and post-translational modification will be provided. The course will also include a description of appropriate biometrical methods needed to design, summarise and analyse experiments and an introduction to the different forms of scientific communication available to present results to different target audiences.

### **PLANT SC 7226WT Molecular Plant Breeding**

3 units - semester 1

3 x 2 hour Lectures, 2 x 2 hour Class Exercises, 3 x 4 hour Practicals per week for 3 weeks

Restriction: Grad Cert/Grad Dip/M.Biotech (Plant Biotech), other students by approval of program coordinator

Assumed Knowledge: PLANT SC 7225WT

Assessment: Final exam, tutorials, assignments, reports

This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students.

Plant molecular biology can be incorporated into crop improvement programs via plant transformation (gene technology) and/or via the application of genetic marker information. Plant cell and tissue culture is used in plant transformation and has other applications in plant breeding. This course considers the scientific basis for the application of plant transformation, molecular markers and cell and tissue culture in plant breeding.

### **PLANT SC 7227WT Plant Genomics**

3 units - semester 1

6 x 1 hour Lectures, 3 x 2 hour Class Exercises, 2 x 4 hour Practicals per week for 3 weeks

Restriction: M Biotech (Plant Biotech), other students by approval of program coordinator

Assumed Knowledge: PLANT SC 7225WT

Assessment: Final exam, tutorials, assignments, reports

This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students

Students learn about the tools of genomics and can apply these tools to increase their understanding of plant function. Topics include: Accessing and utilising bioinformatics resources for plant biotechnology; Identification of candidate genes using genetic information (positional cloning), using biochemical and expression analysis (microarray analysis, proteomics, metabolomics); characterization and functional analysis of candidate genes: transformation, mutant populations, knockout systems, heterologous expression systems, protein analysis.

### **PLANT SC 7228WT Research Project (Plant Biotechnology)**

12 units - semester 1

Assessment: To be advised

Syllabus details to be advised.

## **PLANT SC 7229AWT/BWT** **Extended Research Project (Plant Biotech)**

24 units - full year

Restriction: M.Biotech (Plant Biotech) students

Assessment: To be advised

This course focuses on a research project that is carried out over five months. Students also develop advanced communication skills in tutorial sessions. This aspect focuses on written and oral communication as they relate to the plans and results of the project. Each student reports the results of their research in a scientific manuscript for publication.

## **Politics**

### **POLI 5001** **The Politics of Health**

6 units - semester 1

Restriction: postgraduate International Studies students

Check with School for Non-Award Study

Assessment: 6000-8000 essay

This course is designed to encourage students to reflect on debates around public health issues in Australia, other countries and in the international arena. As a way into this broad topic we will begin by examining the range of interpretations of the recently identified obesity 'pandemic'. This starting point will allow us to identify and reflect on the dominant paradigms used to explain health and ill-health. Particular attention will be paid to the social determinants of health (SDH) literature. Throughout our inquiries we will address the question - how is politics relevant to health?

To answer this question the premises in a range of explanations/frameworks will be identified and the sorts of social changes that would accompany particular forms of explanation considered. This question will also be addressed through reflecting on the political implications of particular forms of explanation.

### **POLI 5002** **Adam Smith 1723-1790 & John Stuart Mill 1806-1873**

6 units - semester 1

Restriction: postgraduate International Studies students

Check with School for Non-Award Study

Assessment: 6000-8000 essay

This is a political theory course that explores the ideas of two of the most important thinkers in the history of Western political thought. We will examine Smith and Mill's highly influential (and still dominant) conceptions of justice, freedom, rights, the market, the proper role of the state, the good society, the relationship between the individual and society and the role of emotion and friendship in human life. We will also explore the gendered nature of their work as well as the character, strengths and shortcomings of the individualised,

separative, rational, rule-governed, striving, competitive, pecuniary, consumeristic and self-regarding liberal self they both helped to construct and valorise.

### **POLI 5003** **How Much is Society Worth?**

6 units - semester 2

Restriction: postgraduate International Studies students

Check with School for Non-Award Study

Assessment: 6000-8000 word essay

In 1993 Robert Putnam published 'Making Democracy Work: Civic Traditions in Modern Italy', a work which summarised several decades of research in Italy. What has given more than local interest to Putnam's study is his argument that the institutions of civil society are crucial to sustaining the functions of democracy and, ultimately, to the economic well-being of society. Societies with effective democracies, like those in northern Italy, in which there are dense networks of non-governmental associations (football clubs, choirs, cooperatives, etc. etc.) are ones which are characterised by high levels of trust.

What has emerged from Putnam's findings and arguments is a broader argument that there is a form of 'social capital' - 'bridging social capital' - which is created by trust and association which can, to some extent be measured, and which can actually substitute for physical capital. Putnam has extended his original findings in *Bowling Alone*, a detailed study of the decline of social capital in the United States in the second half of the Twentieth Century. Putnam found that states high in social capital are those where children flourish, violent crime is lower, where people are more likely to be gainfully employed, and to have better health. These findings have been extended by other researchers into areas such as development studies and epidemiology.

## **Psychology**

### **PSYCHOL 6020** **Doing Research in Psychology**

3 units - semester 1

2 lecture per week; 6 tutorials per semester; practical work and research participation

Restriction: PSYCHOL 6001

Prerequisite: PSYCHOL 1000 & PSYCHOL 1001, PSYCHOL 6000 or equivalent

Corequisite: PSYCHOL 6026 Individual Differences, Personality & Assessment, PSYCHOL 6028 Psychology, Ideas & Action

Assessment: Written Exam 50%, Online exercise and written practical 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 6021** **Foundations of 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 6002, PSYCHOL 6003

Prerequisite: PSYCHOL 1000 & PSYCHOL 1001 PSYCHOL 6000 or equivalent

Corequisite: PSYCHOL 6026, PSYCHOL 6028

Assessment: Written Exam 50%, Online exercise 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 6022** **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 6002 or PSYCHOL 6003 P

Prerequisite: PSYCHOL 1000, PSYCHOL 1001, PSYCHOL 6000 or equivalent

Corequisite: PSYCHOL 6024, Psychol 6025

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 6023** **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 6002, PSYCHOL 6003

Prerequisite: PSYCHOL 1000 & PSYCHOL 1001, PSYCHOL 6000 or equivalent

Corequisite: PSYCHOL 6024, PSYCHOL 6025

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.

## **PSYCHOL 6024** **Doing Research in Psychology: Advanced**

3 units - semester 2

1 lecture per week; 6 tutorials per semester; practical work

Restriction: PSYCHOL 6001

Prerequisite: PSYCHOL 6001, PSYCHOL 6020

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 6025** **Health & Lifespan Developmental Psychology**

3 units - semester 1 or 2

1 lecture per week; 6 tutorials per semester; practical work

Restriction: PSYCHOL 6005 I, PSYCHOL 6017

Prerequisite: PSYCHOL 6001, PSYCHOL 6020, PSYCHOL 6021

Assessment: Written Exam 50%, Online exercises and 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 6026** **Individual Differences, Personality & Assessment**

3 units - semester 1

1 lecture per week; 6 tutorials per semester; practical work

Restriction: PSYCHOL 6014

Prerequisite: PSYCHOL 6001

Corequisite: PSYCHOL 6020

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 6027** **Perception & Cognition**

3 units - semester 2

1 lecture per week; 6 tutorials per semester; 6 self-directed learning sessions per semester

Restriction: PSYCHOL 6018, PSYCHOL 6019

Prerequisite: Psychological Research Methods II, Psychology IIA & IIB, or PSYCHOL 6020, PSYCHOL 6021, PSYCHOL 6022, PSYCHOL 6023

Assessment: Written Exam 50%, Online exercises and written report 50%

Perception and Cognition builds upon PSYCHOL 6006 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 6028** **Psychology, Ideas & Action**

3 units - semester 1

1 lecture per week; 6 tutorials per semester; 6 self-directed learning sessions per semester

Restriction: PSYCHOL 6009, PSYCHOL 6015

Prerequisite: PSYCHOL 6020

Assessment: Written Exam 50%, Online exercises and 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.

### **PSYCHOL 6029** **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 6010, PSYCHOL 6013

Prerequisite: Psychological Research Methods II, Psychology IIA & IIB or PSYCHOL 6020, PSYCHOL 6021, PSYCHOL 6022, PSYCHOL 6023

Assessment: Written Exam 50%, Online exercises and 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 6100** **Introductory Psychology**

3 units - summer semester

2 tutorials per week

Restriction: PSYCHOL 1000 & PSYCHOL 1001, PSYCHOL 6000 or equivalent

Prerequisite: Completed first degree with no Psychology

Assessment: Written exam 50%, online exercises & written assignments 50%

This course provides an introduction to the basic concepts and core topics within contemporary psychology through a mixed delivery mode. Core topics covered during the course 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; the nature of motivation and emotion; and an introduction to psychological assessment. 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 7101** **Adult Clinical Psychology**

4 units - semester 1

2 x 3 hour sessions per week, prac. work in student's own time

Restriction: M.Psych.(Clin.) students, or permission of Head of School

Assessment: Multiple choice exam 30%, class presentation or assignment 30%, take-home exam 40%

This course teaches students to assess adult mental health, diagnose psychological disorders, formulate treatment plans, and evaluate the scientific literature about the efficacy and effectiveness of therapeutic interventions. Students gain an understanding of the assessment and management of a wide range of psychological disorders including those of high and low prevalence.

## **PSYCHOL 7102** **Applied Methodology**

2 units - summer semester or semester 1

7 day Intensive course (9:30am-3:30pm) - 2 days in Nov 2006, 5 days in Feb 2007

Restriction: M.Psych.(Clin.) students, or permission of Head of School

Assessment: 2 written assignments, including one statistical exercise

The course is intended to be highly applied and of direct relevance to clinical practice. It has a heavy emphasis on program design and evaluation, and the student is also introduced to the methods for critically appraising the literature, and to the basic skills of writing research proposals. The course will cover descriptive

and experimental research methods from both quantitative and qualitative perspectives, as well as other contemporary approaches to research and evaluation, such as audit and case studies.

## **PSYCHOL 7103** **Child Clinical Psychology**

2 units - semester 1

3 hours/week

Restriction: M.Psych.(Clin) students, or permission of Head of School

Corequisite: PSYCHOL 7101

Assessment: 2 assignments

This course aims to provide theoretical knowledge and practical experience in child clinical psychology. The focus is on the assessment, treatment and conceptualisation of problems of children and adolescents with particular reference to risk factors in development, effects of the family context on children, behavioural and emotional problems in children, health behaviours and adolescent lifestyle factors.

## **PSYCHOL 7104** **Clinical Neuropsychology**

2 units - semester 1

3 hours/week

Restriction: M.Psych (Clin) students, or permission of Head of School

Corequisite: PSYCHOL 7108 or equiv

Assessment: Critical review of commonly used neuropsychological test, critical review of neuropsychological disorder

This course will introduce students to the field of clinical neuropsychology with a particular emphasis on assessment. It will examine: the field of interest; the main purposes of neuro-psychological assessment; the underlying assumptions in this field; the areas of cognitive functioning that are of interest to neuropsychologists; behavioural neuroanatomy; and the notion of deficit measurement. Moreover, it will introduce students to some of the main methods by which cognitive skills such as orientation, attention, memory, language, construction, reasoning, executive functions and psychomotor skills are assessed. Students will also be introduced to a variety of disorders that are characterised by deficits in these areas of functioning. Case studies will be used to illustrate the deficits associated with these disorders and to develop students' skills in interpreting neuropsychological test data.

## **PSYCHOL 7105** **Preparation for Psychological Practice II**

2 units - semester 2

3 hours per week

Restriction: M. Psych (Clin) students & Psych. combined degree students or permission of Head of School

Prerequisite: PSYCHOL 7107

Assessment: Videotaped demonstrations of clinical skill acquisition, class participation and written ethics exercise

This unit aims to develop students' skills in professional practice and communication and in evidence-based practice with adults, children and families. On completion of this unit students will be able to demonstrate knowledge

and clinical skills in CBT and other evidence-based intervention modalities for adults, children and families, as well as the ability to critically evaluate their own clinical psychology practice. They will be able to plan, deliver and evaluate an intervention, and to consult, maintain clinical records, and provide written and oral reports. They will have demonstrated knowledge and understanding of, and a commitment to fulfilling, the National Standards for Mental Health workforce and the ethical, professional and legal responsibilities of a practising psychologist.

### **PSYCHOL 7106 Health Psychology**

2 units - semester 2

3 hours per week

Restriction: M.Psych.(Clin) students, or permission of Head of School

Assessment: Group-based assignment 50%, written paper 50%

This course examines the relationships of social, behavioural and cognitive variables to health and health care. It covers those aspects of the social environment that influence health and illness outcomes, including the interactions amongst family members and between health care consumers and healthcare providers. Risk factors for health-compromising behaviours are also discussed, including strategies for their modification.

### **PSYCHOL 7107 Preparation for Psychological Practice I**

2 units - summer semester or semester 1 or 2

12 x 3 hour sessions

Restriction: M.Psych.(Clin) students and Psychology Combined Degree students or permission of Head of School

Assessment: Videotaped demonstrations of clinical skills, class participation

This unit aims to develop students' skills in interviewing and counselling clients and conducting cognitive-behavioural therapy (CBT), through observing, discussing and practising techniques in class, using a model of evidence-based practice. On completion of this unit students will be able to demonstrate knowledge and skills in interviewing, counselling and CBT.

### **PSYCHOL 7108 Psychological Assessment**

2 units - semester 1

3 hours per week

Restriction: M.Psych.(Clin) students, or permission of Head of School

Assessment: 2 assignments based on practical exercises

This course aims to introduce students to the principles of assessment by focusing on a number of widely used norm-referenced psychological tests.

### **PSYCHOL 7109 Clinical Geropsychology**

2 units - semester 2

3 hours per week

Restriction: M.Psych.(Clin) students, or permission of Head of School

Assessment: 2 assignments

This course examines psychological and health aspects of ageing. It covers normal/healthy ageing as well as providing an overview of research, assessment and intervention strategies in a number of areas of concern to clinical practice. Material is presented within a framework that emphasises the interplay between biological, psychological and social factors on aspects of functioning.

### **PSYCHOL 7110 Rehabilitation and Disability**

2 units - semester 2

3 hours per week

Restriction: M.Psych.(Clin)/M. Psych (Org'al & Hum. Factors) students or permission of Head of School

Assessment: Assessment & training exercises, group projects on current issues in a particular type of disability covered in course

This course examines the historical development of concepts relevant to rehabilitation such as normalisation, deinstitutionalisation, least restrictive alternatives and quality of life. Research and current issues in the application of these concepts are discussed. Basic assessment, programming, training, behaviour management and evaluation techniques and procedures are introduced, together with exercises in their use. Similarities and differences between the rehabilitation of different kinds of disabilities are also examined.

### **PSYCHOL 7111 Master of Psychology (Clinical) Placement I**

4 units - semester 1 or 2

18.5 hours/week

Restriction: M.Psych.(Clin.) students

Prerequisite: PSYCHOL 7101, PSYCHOL 7107, PSYCHOL 7108 or equiv

Assessment: Contract agreed to by field placement supervisor, student & university placement supervisor

Placements are arranged within approved agencies in South Australia that reflect the requirements of the SA Psychological Board and the APS College of Clinical Psychologists. Students will be required to gain a broad experience of clinical psychology in a range of settings.

### **PSYCHOL 7112 Master of Psychology (Clinical) Placement II**

4 units - semester 1 or 2

18.5 hours per week

Restriction: M.Psych.(Clin.) students

Prerequisite: PSYCHOL 7107, PSYCHOL 7108 or equiv

Assessment: Contract agreed to by field placement supervisor, student & university placement supervisor

Placements are arranged within approved agencies in South Australia which will reflect the requirements of the SA Psychological Board and the APS College of Clinical Psychologists. Students will be required to gain a broad experience of clinical psychology in such areas as the psychological assessment and management of children and adults with special needs due to a mental disorder, intellectual disability, acquired brain injury, or other health-related condition.

**PSYCHOL 7113**  
**Master of Psychology (Clinical) Placement III**

4 units - semester 1 or 2

18.5 hours/week

Restriction: M. Psych. (Clin) students

Prerequisite: PSYCHOL 7107, PSYCHOL 7108 or equiv

Assessment: Contract agreed to by field placement supervisor, student and university placement supervisor

Placements are arranged within approved agencies in South Australia which will reflect the requirements of the SA Psychological Board and the APS College of Clinical Psychologists. Students will be required to gain a broad experience of clinical psychology in a range of settings.

**PSYCHOL 7114A/B**  
**Research Project in Clinical Psychology**

16 units - full year

Contact hours to be arranged with supervisor

Restriction: M.Psych.(Clin.) students

Prerequisite: PSYCHOL 7102 or equiv

Assessment: Dissertation examined as per Academic Program Rule 3 of degree, students must complete this course to fulfil requirements of research project

This is an empirically-based research project on a topic of relevance to clinical psychology to be pursued under the guidance of one or more supervisors (at least one of whom shall be a member of the School of Psychology). The project should be structured so that the students participate in all of the steps involved in the research, including the formulation of the research question(s), the design of the study including the selection of appropriate methodology, the collection and analysis of data, the interpretation of the findings, and the preparation of the report.

**PSYCHOL 7116A/B**  
**Research Project in Clinical Psychology**

8 units - semester 1 or 2

Contact hours to be arranged with supervisor

Restriction: MPsych (Clin) students

Prerequisite: PSYCHOL 7102 or equivalent

Assessment: Dissertation examined as per Academic Program Rule 3 of degree, students must complete this course to fulfil requirements of research project

This is an empirically-based research project on a topic of relevance to clinical psychology to be pursued under the guidance of one or more supervisors (at least one of whom shall be a member of the School of Psychology). The project should be structured so that the students participate in all of the steps involved in the research, including the formulation of the research question(s), the design of the study including the selection of appropriate methodology, the collection and analysis of data, the interpretation of the findings, and the preparation of the report.

**PSYCHOL 7201**  
**Applied Methodology and Statistics**

2 units - summer semester

3 hours per week

Restriction: M.Psych (Org'al and Hum. Factors) students, or permission of Head of School

Assessment: 2 written assignments, including statistical exercise involving SPSS

This course will provide students with the knowledge to undertake qualitative, survey, quasi-experimental and experimental research in applied settings. Using numerous examples drawn from psychology, economics, and other allied disciplines, the course will provide a comprehensive coverage in survey methods, data-collection strategies, sampling theory, and specific parametric and non-parametric techniques ideal for analysis in human factors research.

**PSYCHOL 7202**  
**Applied Perceptual and Cognitive Psychology**

2 units - semester 1

3 hours per week

Restriction: M.Psych.(Org'al & Hum. Factors) students, or permission of Head of School

Assessment: 2 assignments

This course aims to examine models of human perception and cognition in their application to a variety of real-world problems. It is concerned with the measurement and understanding of perceptual and cognitive performance, the assessment and interpretation of confidence, and some properties and practical implications of theories of memory, learning and skill retention, problem solving, and human pattern recognition abilities. Throughout the course, emphasis will be given to applications, such as the measurement of perceptual thresholds, image recognition, target detection, the design of displays for the graphical representation of complex data, and the practical assessment of human cognitive capabilities.

**PSYCHOL 7206**  
**Human Factors/Ergonomics**

2 units - semester 1

3 hours per week

Restriction: M.Psych.(Org'al & Hum. Factors) students, or permission of Head of School

Assessment: 2 written assignments

This course aims to provide an understanding of major areas of human factors, such as physical and psychological capabilities and limitations, and how applying human factors can optimise performance in a range of situations. It addresses how technology and instructional and control systems can be shaped to benefit human performance and includes information on how the human body works, and how information is processed. Specific topics include the effects of ambient conditions, stimulus-response compatibility in a range of practical situations, human error, and accidents.



## **PSYCHOL 7207** **Human Resource Management**

2 units - semester 1

3 hours per week

Restriction: M.Psych.(Org'al & Hum. Factors) students, or permission of Head of School

Assessment: individual and group assignments

This course examines how an organisation can maximise its returns from its workforce, and employees can maximise their returns from their work. It involves understanding all aspects of the management of people at work, including: planning, job analysis, recruitment and selection, training and development, performance management, remuneration and benefits, career development, and dealing with redundancies and retirement. The course will consider these issues as well as the implications of emerging organisational challenges for human resource management practices. These challenges include: the increasing use of contract staff and outsourcing; harnessing and sustaining organisational commitment; developing organisational cultures that are responsive to change; diversity in the workplace; harnessing innovation and knowledge management; globalisation of industry; and changing workplace practices.

## **PSYCHOL 7209** **Organisational Behaviour and Management**

2 units - semester 2

3 hours per week

Restriction: M.Psych.(Org'al & Hum. Factors) students, or permission of Head of School

Assessment: 3 assignments: 2 case studies 30% each, critical review 40%

This course aims to provide students with an understanding of the factors that impact upon the behaviour of the individual in the workplace and how these same factors can be used to structure a work environment and work experience that enhances both organisational and individual outcomes. It includes a consideration of values and attitudes, perception, motivation, and personality. It also analyses interpersonal influences that impact upon group behaviour in the work setting. Topics covered include communication, decision-making, constructing work teams, leadership, issues in power and politics, and conflict resolution. In addition, it examines the influence of broader, organisation-wide factors on behaviour in the workplace, with a specific focus on "person-organisation fit". Topics covered in this section will include organisational structure and work design, organisational culture and workplace stress.

## **PSYCHOL 7210** **Professional and Ethical Practice**

2 units - semester 1

3 hours/week

Restriction: M.Psych.(Org'al & Hum. Factors) students, or permission of Head of School

Assessment: Exercise in communication, exercise in interviewing

This course aims to familiarise students with the requirements of relevant professional and research organisations, and to make students aware of the values and thinking that underlie those requirements. It aims to develop students' sensitivity to ethical issues as these arise in the course of professional practice and research, and to develop appreciation of the complexity of problems that attend the practical application of ethical standards. The course will also cover the topics of communication and interviewing.

## **PSYCHOL 7211** **Psychological Assess: Recruitment & Personnel Appraisal**

2 units - semester 1

3 hours per week

Restriction: M.Psych.(Org'al & Hum. Factors) students, or permission of Head of School

Assessment: 2 small, 1 large practical exercise

This course aims to introduce students to the principles of assessment by focussing on tests and procedures used in organisational settings. On completion of the course, students will be able to demonstrate an understanding of psychological assessment; an ability to score a test and draw inferences from the results in an hypothesis-generating and hypothesis testing framework appropriate to an organisational setting; and an ability to write a report of professional standard.

## **PSYCHOL 7212** **Advanced Organisational Psychology**

2 units - semester 2

3 hour seminar per week

Prerequisite: Honours Psychology or APS-approved equivalent fourth-year in Psychology

Assessment: 2 assignments/exercises worth 50% each

The course will cover topics relevant to both individual and organizational health, well-being and performance. It will provide students with a detailed understanding of the factors that impact upon organisational decision-making, successful organisational change, and other factors relevant to individual and organisational performance. More specifically, the topics covered in the course will include (i) the assessment and improvement of decision-making in organisations, and (ii) organisational change and development, and (iii) dealing with workplace stress.

## **PSYCHOL 7213** **Optimising Performance in Organisation**

2 units - semester 1

3 hour seminar per week

Restriction: MPsych(o&HF) students or permission of Head of School

Prerequisite: Honours Psychology or ASP-approved equivalent fourth-year in Psychology

Corequisite: PSYCHOL 7207

Assessment: 2 assignments/exercises worth 50% each

This course examines the role of assessment and evaluation as a basis for optimising human performance

in organisations. It adopts an employment life cycle perspective whereby the importance of assessment and evaluation is considered in relation to: the initial recruitment, selection and induction of employees; their subsequent maintenance and motivation through human resource management practices such as training and development, performance and appraisal, compensation, career development and succession planning; and their final departure from the organisation (whether via resignation, retirement, or termination). In addition to its focus on assessment and evaluation at an individual level, the course also considers how these activities can be used to establish the “bottom-line” justification for an organisation’s human resource management practices.

**PSYCHOL 7221**  
**Master of Psychology (Organisational & Human Factors) Placement I**

4 units - semester 1 or 2  
 Contact hours to be arranged with supervisor  
 Restriction: M.Psych.(Org'al & Hum. Factors) students  
 Prerequisite: PSYCHOL 7210  
 Assessment: Terms of contract agreed to by field placement supervisor, student & university placement supervisor

Placements are arranged within approved agencies in South Australia, to reflect the requirements of the SA Psychological Board and the Australian Psychological Society (APS) College of Organisational Psychologists. For further information, see the Program Handbook or the School of Psychology web site.

**PSYCHOL 7222**  
**Master of Psychology (Organisational & Human Factors) Placement II**

4 units - semester 1 or 2  
 Contact hours to be arranged with supervisor  
 Restriction: M.Psych.(Org'al & Hum. Factors) students  
 Prerequisite: PSYCHOL 7210  
 Assessment: Terms of contract agreed to by field placement supervisor, student & university placement supervisor

Placements are arranged within approved agencies in South Australia, to reflect the requirements of the SA Psychological Board and the Australian Psychological Society (APS) College of Organisational Psychologists. For further information, see the Program Handbook or the School of Psychology web site.

**PSYCHOL 7223**  
**Master of Psychology (Organisational & Human Factors) Placement III**

4 units - semester 1 or 2  
 Contact hours to be arranged with supervisor  
 Restriction: M.Psych.(Org'al & Hum. Factors) students  
 Prerequisite: PSYCHOL 7210  
 Assessment: Terms of contract agreed to by field placement supervisor, student & university placement supervisor

Placements are arranged within approved agencies in South Australia, to reflect the requirements of the SA Psychological Board and the Australian Psychological

Society (APS) College of Organisational Psychologists. For further information, see the Program Handbook or the School of Psychology web site.

**PSYCHOL 7225A/B**  
**Master of Psychology (Organisational & Human Factors) Research Project**

8 units - semester 2  
 Contact hours to be arranged with supervisor  
 Restriction: M.Psych.(Org'al & Hum. Factors) students  
 Prerequisite: PSYCHOL 7201  
 Assessment: Dissertation examined as per Academic Program Rule 3 of degree - students must complete this course to fulfil requirements of research project

This is an empirically-based research project on a topic of relevance to Organisational Psychology or Human Factors, pursued under the guidance of one or more supervisors (at least one of whom shall be a member of the School of Psychology). The project should be structured so that students participate in all of the steps involved in the research, including the formulation of the research question(s), the design of the study including the selection of appropriate methodology, the collection and analysis of data, the interpretation of the findings, and preparation of the report in the form of a publishable article.

**PSYCHOL 7306**  
**Health Psychology (Health)**

2 units - semester 2  
 3 hours per week  
 Restriction: Master Psychology (Health) students only  
 Assessment: Group-based assignment 50%, written paper 50%

This course examines the relationships of social, behavioural and cognitive variables to health and health care. It covers those aspects of the social environment that influence health and illness outcomes, including the interactions amongst family members and between health care consumers and healthcare providers. Risk factors for health-compromising behaviours are also discussed, including strategies for their modification.

**PSYCHOL 7311**  
**Master of Psychology (Health) Placement I**

4 units - semester 1 or 2  
 18.5 hours/week  
 Restriction: Master of Psychology (Health) Students  
 Prerequisite: PSYCHOL 7107, PSYCHOL 7108 or equiv  
 Assessment: Contract agreed to by field placement supervisor, student and university placement supervisor

Placements are arranged within approved agencies in South Australia that reflect the requirements of the SA Psychological Board and the APS College of Health Psychologists. Students will be required to gain a broad experience of health psychology in a range of settings.

## **PSYCHOL 7312** **Master Psychology (Health) Placement II**

4 units - semester 1 or 2

18.5 hours/week

Restriction: M.Psych.(Hlth) Students

Prerequisite: PSYCHOL 7107, PSYCHOL 7108 or equiv

Assessment: Contract agreed to by field placement supervisor, student and university placement supervisor

Placements are arranged within approved agencies in South Australia that reflect the requirements of the SA Psychological Board and the APS College of Health Psychologists. Students will be required to gain a broad experience of health psychology in a range of settings.

## **PSYCHOL 7313** **Master Psychology (Health) Placement III**

4 units - semester 1 or 2

18.5 hours/week

Restriction: M.Psych. (Hlth) Students

Prerequisite: PSYCHOL 7107, PSYCHOL 7108 or equiv

Assessment: Contract agreed to by field placement supervisor, student and university placement supervisor

Placements are arranged within approved agencies in South Australia that reflect the requirements of the SA Psychological Board and the APS College of Health Psychologists. Students will be required to gain a broad experience of health psychology in a range of settings

## **PSYCHOL 7314A/B** **Research Project Health Psychology**

8 units - semester 1 or 2

To be arranged with supervisor

Restriction: M.Psych.(Hlth) students

Assumed Knowledge: PSYCHOL 7102 or equiv

Assessment: Dissertation examined as per Academic Program Rule 3 of degree, students must complete this course to fulfil requirements of research project

This is an empirically-based research project on a topic of relevance to health psychology to be pursued under the guidance of one or more supervisors (at least one of whom shall be a member of the School of Psychology). The project should be structured so that the students participate in all of the steps involved in the research, including the formulation of the research question(s), the design of the study including the selection of appropriate methodology, the collection and analysis of data, the interpretation of the findings, and the preparation of the report.

## **PSYCHOL 7401EX** **Regimental Officer Basic Course**

3 units - semester 1

40 day residential course comprising 40 minute lecture periods from 0800 - 1600 each day - lectures interspersed with practical exercises  
6 assessment periods

Restriction: MAppPsych (Defence) students only - others at the discretion of the course coordinator

Assessment: interspersed throughout the course with students required to demonstrate competency in each of core areas - In total, 18 summative assessments during 40 day residential course

This course is an intensive forty day residential course with lectures, practicals and assessments interspersed through the forty days. It aims to prepare Defence Psychologists (and Intern Psychologists) for employment in the Australian Defence Force. In doing so, it requires psychologists to apply psychological principles in a culturally appropriate manner within the ADF and in a way that is consistent with the policies and procedures of the ADF and the ADF Psychology Services as well as the Australian Psychological Society Code of Ethics. Topics include psychological assessment, psychological counselling, the provision of psycho-education, the conduct of psychological screening interviews for personnel returning from deployment, the conduct of front line interventions with personnel with alcohol and other drug issues, conducting suicide first aid and the provision of mental health support to ADF personnel exposed to potentially traumatic events. The ethical implications of working within the ADF as a Psychologist are discussed throughout the course.

## **PSYCHOL 7402** **Scientist Practitioner Model**

3 units - winter semester

30 hours

Restriction: MAppPsych (Defence) students only or Head of School permission

Assessment: Assignments and role-play

This course aims to provide students with the knowledge and skills required to undertake qualitative, quantitative and mixed methods research in applied settings. It will provide an overview of survey methods, data collection, strategies and sampling.

Students will be able to demonstrate competency in counselling skills and conducting an initial interview, a mental status examination and knowledge and competency of CBT.

## **PSYCHOL 7403** **Psychological Assessment**

3 units - winter semester

30 hours

Restriction: MAppPsych (Def) students only or Head of School permission

Assessment: 2 x Assignments based on practical exercises

This course aims to introduce students to the principles of assessment by focusing on a small number of widely used norm-referenced tests of abilities. The student will be able to demonstrate: an understanding of the nature and principles of psychological assessment; that they have practised giving tests; that they are able to score tests covered and draw inferences from the results within a hypothesis generating and testing framework; that they can write a report of professional standard.

## **PSYCHOL 7404**

### **Organisational Behaviour & Management**

3 units - semester 2

On-line only

Restriction: MAppPsych (Def) students only or Head of School permission

Assessment: Assignments and reports

This course aims to provide students with an understanding of the factors that impact upon the behaviour of an individual in the workplace and how these factors can be used to structure a work environment and work experience that enhances both organisational and individual outcomes. It includes a consideration of values and attitudes, perception, motivation, and personality. It also analyses interpersonal influences that impact upon group behaviour in the workplace. Topics covered include communication, decision-making, constructing work teams, leadership, issues in power and politics, and conflict resolution. In addition, it examines the influence of broader organisation-wide factors on behaviour in the workplace, with a specific focus on 'person-organisation fit'. Topics include organisational structure and work design, organisational culture and workplace stress.

## **PSYCHOL 7405EX**

### **Psychological Climate Interventions**

3 units - semester 1

External course involving 12 discrete topic areas - students required to complete one area per week through weekly readings; 4 tutorial teleconferences convened during semester

Restriction: MAppPsych (Defence) students only - others at discretion of course coordinator

Prerequisite: ROBC, Psychological Assessment, Scientist Practitioner Model

Assessment: Assignments, teleconference tutorials

This course aims to introduce students to the theoretical principles underpinning the measurement of psychological climate in organisational settings and, in particular, in the Australian Defence Force. In addition to the theory, the course requires students to explore the practical and ethical aspects of applying these principles. The course requires students to demonstrate their theoretical and practical understanding of psychological climate interventions by providing a detailed report of their own measurement of psychological climate in a real-world setting. Course topics include distinguishing climate from culture, level of measurement issues, command consultation, and case studies drawn from the Profile of Unit Leadership Satisfaction and Effectiveness instrument and the Human Dimensions of Operations survey.

## **PSYCHOL 7406**

### **Human Factors and Ergonomics**

3 units - semester 2

On-line only

Restriction: MAppPsych (Def) students only or Head of School permission

Prerequisite: ROBC, Psychological Assessment, Scientist Practitioner Model

Assessment: Written assignments

This course aims to provide an understanding of major areas of human factors, such as physical and psychological capabilities and limitations, and how applying human factors can optimise performance in a range of situations. It addresses how technology and instructional and control systems can be shaped to benefit human performance and includes information on how the human body works, and how information is processed. Specified topics include the effects of ambient conditions, stimulus response capability in a range of practical situations, human error and accidents.

## **PSYCHOL 7407**

### **Decision Making in Real Environments**

3 units - semester 1

On-line only

Restriction: MAppPsych (Def) students only or Head of School permission

Prerequisite: ROBC, Psychological Assessment, Scientist Practitioner Model

Assessment: Assignments

This course aims to examine models of human decision making in their application to a variety of real-world problems. It will develop an understanding of the way in which people make decisions in a variety of real-world situations. It will describe and critically evaluate a number of competing models of human decision making.

Particular emphasis will be given to those models that consider the roles that heuristics (rule of thumb) play in decision making, and to models that consider the way in which the environment guides decision making. Throughout the course, applications of the decision making models to real-world problems will be highlighted, including examples drawn from the domain of fire-fighting, human-computer interaction and military decision making.

## **PSYCHOL 7408EX**

### **Performance Mgmt in Complex Socio-Tech Systems**

3 units - semester 1

External course involving 12 discrete topic areas - students required to complete one area per week through weekly readings; 4 tutorial teleconferences convened during semester

Restriction: MAppPsych (Defence) students only - others at the discretion of the course coordinator

Prerequisite: ROBC, Psychological Assessment, Scientist Practitioner Model

Assessment: Assignments, teleconference tutorials

The aim of this course is to introduce students to human factors in today's complex socio-technical systems, with a focus on military aviation. Students will examine psychological theories and knowledge that can be applied to promote safe and effective performance in 'high-reliability' military occupations. The course will also examine how psychologists can assist in the promotion, management, and investigation of safety systems. Ethical issues and dilemmas that are commonly associated with such engagement - such as the blame, trust, and punishment - will be critically analysed. Course topics include systems theory, human error, human performance limitations, safety investigation, and case studies of safety management in the military context.

## **PSYCHOL 7409** **Health Psychology**

3 units - semester 1 or 2

On-line only

Restriction: MAppPsych (Defence) students only or Head of School permission

Prerequisite: ROBC, Psychological Assessment, Scientist Practitioner Model

Assessment: Written assignments and reports

This course examines the relationships of social, behavioural and cognitive variables to health care. It covers those aspects of the social environment that influence health and illness outcomes, including the interactions amongst family members and between health care consumers and health care providers. Risk factors for health-compromising behaviours are also discussed, including strategies for their modification.

## **PSYCHOL 7410EX** **Military Psychology on Operations**

3 units - semester 1

External course involving 12 discrete topic areas - students required to complete one area per week through weekly readings; 4 tutorial teleconferences convened during semester

Restriction: MAppPsych (Defence) students only - others at the discretion of the course coordinator

Prerequisite: ROBC, Psychological Assessment, Scientist Practitioner Model

Assessment: Assignments, teleconference tutorials

The aim of this course is to introduce students to current and potential roles of psychology on military operations from both theoretical and applied perspectives. Students will be required to consider ways that psychological principles can be applied to build resilience and enhance performance in individual military members and teams. The course will also examine how psychologists can assist Commanders to optimise the effectiveness of their personnel on military operations, as well as to critically analyse the ethics of such involvement. Course topics include fostering psychological readiness for deployment, managing the risks of fatigue, surviving captivity, foundations of cross-cultural competence, and promoting resilience for body recovery tasks.

## **PSYCHOL 7411** **Traumatic Stress in Military & Disaster Settings**

3 units - semester 1 or 2

1 week intensive: 15 lectures 5 tutorials/PBL; 5 practicals

Restriction: MAppPsych (Defence) students only - others at the discretion of the course coordinator

Prerequisite: ROBC, Psychological Assessment, Scientist Practitioner Model

Assumed Knowledge: Basic knowledge of psychopathology

Assessment: Assignment - 2000 words; Log Book - 5 cases (max 500 words)

This course aims to introduce students to the nature of trauma, traumatic stress responses and identification of those responses. It will examine and discuss the symptoms of PTSD in relation to military and disaster settings and discuss screening methods, interventions and treatments.

## **PSYCHOL 7412EX** **Master of Applied Psychology (Defence) Placement 1**

3 units - semester 2

Supervised work, 35 hours per week for 8 weeks

Restriction: MAppPsych (Defence) students only or Head of School permission

Prerequisite: ROBC

Assessment: Log book, supervisors report and assessment

Placements are arranged within the Defence Psychology Unit to reflect the requirements of the state psychology boards and Australian Psychological Society. Students are required to gain a broad experience of Defence Psychology. More advanced work may be available, or required of students as they progress through their placements and as they gain experience in each placement.

Supervision will be met by providing a main supervisor through the School of Psychology and provision of a field supervisor by the Defence Psychology Unit (approved by Head of School).

## **PSYCHOL 7413EX** **Master of Applied Psychology (Defence) Placement 2**

3 units - semester 1

Supervised work, 35 hours per week for 8 weeks

Restriction: MAppPsych (Defence) students only or Head of School permission

Prerequisite: ROBC, Psychological Assessment, Scientist Practitioner Model

Assessment: Log book, supervisors report and assessment

Placements are arranged within the Defence Psychology Unit to reflect the requirements of the state psychology boards and Australian Psychological Society. Students are required to gain a broad experience of Defence Psychology. More advanced work may be available, or required of students as they progress through their placements and as they gain experience in each placement.

Supervision will be met by providing a main supervisor through the School of Psychology and provision of a field supervisor by the Defence Psychology Unit (approved by Head of School).

## **PSYCHOL 7414EX** **Master of Applied Psychology (Defence) Placement 3**

3 units - semester 2

Supervised work, 35 hours per week for 8 weeks

Restriction: MAppPsych (Defence) students only or Head of School permission

Prerequisite: ROBC, Psychological Assessment, Scientist Practitioner Model

Assessment: Log book, supervisors report and assessment

Placements are arranged within the Defence Psychology Unit to reflect the requirements of the state psychology boards and Australian Psychological Society. Students are required to gain a broad experience of Defence Psychology. More advanced work may be available, or required of students as they progress through their placements and as they gain experience in each placement.

Supervision will be met by providing a main supervisor through the School of Psychology and provision of a field supervisor by the Defence Psychology Unit (approved by Head of School).

### **PSYCHOL 7415EX** **Master of Applied Psychology (Defence) Placement 4**

3 units - semester 1

Supervised work, 35 hours per week for 8 weeks

Restriction: MAppPsych (Defence) students only or Head of School permission

Prerequisite: ROBC, Psychological Assessment, Scientist Practitioner Model

Assessment: Log book, supervisors report and assessment

Placements are arranged within the Defence Psychology Unit to reflect the requirements of the state psychology boards and Australian Psychological Society. Students are required to gain a broad experience of Defence Psychology. More advanced work may be available, or required of students as they progress through their placements and as they gain experience in each placement.

Supervision will be met by providing a main supervisor through the School of Psychology and provision of a field supervisor by the Defence Psychology Unit (approved by Head of School).

### **PSYCHOL 7416AEX** **Master of Applied Psychology (Defence) Research Project A**

6 units - semester 2

Restriction: MAppPsych (Defence) students only or Head of School permission

Prerequisite: ROBC, Psychological Assessment, Scientist Practitioner Model

Assessment: Research Thesis

Empirically based research projects of direct relevance to the field of Defence Psychology will be pursued under the control of one or more supervisors appointed by the faculty (at least one of whom shall be a member of the School of Psychology). The project should be structured so that the student participates in all steps involved in the research including the formulation of the question(s), the design of the study including the selection of appropriate methodology, the collection and analysis of data, the interpretation of the findings and preparation of the report.

The reports will be in the form of: A) 4-5000 word literature review (excluding abstract) and B) 5-8000 word research report in the form of a publishable paper for a specified psychology journal. Although Masters students will not enrol until their second (full time) year, it is assumed that they will invest in considerable preparatory work from the time when they enter the program.

### **PSYCHOL 7416BEX** **Master of Applied Psychology (Defence) Research Project B**

6 units - semester 1

Restriction: MAppPsych (Defence) students only or Head of School permission

Prerequisite: ROBC, Psychological Assessment, Scientist Practitioner Model

Assessment: Research Thesis

Empirically based research projects of direct relevance to the field of Defence Psychology will be pursued under the control of one or more supervisors appointed by the faculty (at least one of whom shall be a member of the School of Psychology). The project should be structured so that the student participates in all steps involved in the research including the formulation of the question(s), the design of the study including the selection of appropriate methodology, the collection and analysis of data, the interpretation of the findings and preparation of the report.

The reports will be in the form of: A) 4-5000 word literature review (excluding abstract) and B) 5-8000 word research report in the form of a publishable paper for a specified psychology journal. Although Masters students will not enrol until their second (full time) year, it is assumed that they will invest in considerable preparatory work from the time when they enter the program.

## **Public Health**

### **PUB HLTH 7073** **Indigenous Health**

3 units - semester 2

2 contact hours per week

Available for Non-Award Study

Assessment: Minor assignments 20%, major assignment 75%, participation 5%

This course offers students the opportunity to analyse current public policy affecting the health of Aboriginal Australians. It uses historical and political analysis, and comparative studies of other indigenous populations, to provide a context for reflection on current Aboriginal health status and health needs.

The course provides opportunities for students to explore a wide range of Aboriginal health programs and issues, through an intensive and multi-disciplinary teaching program and individual research.

### **PUB HLTH 7074** **Introduction to Biostatistics**

3 units - semester 1

2 contact hours per week

Available for Non-Award Study

Assessment: assignment 40%, exam 60%

By the end of the course, students should grasp basic concepts in statistics; have an understanding of quantitative research strategies; begin to critically assess

literature in the public health domain which employs statistical methods, and appreciate the use of statistics in making decisions in the face of uncertainty.

### **PUB HLTH 7075** **Introduction to Epidemiology**

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3 units - semester 1

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2 contact hours per week

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Available for Non-Award Study

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Assessment: Assignment 40%, exam 60%

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The aim is to give students a grounding in the basic concepts of epidemiology. Students will gain knowledge about: measuring and interpreting disease occurrence; epidemiological models of causation; study designs used in epidemiology and when to apply them; routine sources of data, their strengths, limitations and interpretation; and will begin to critically appraise epidemiological literature with reference to issues of study design and interpretation results.

### **PUB HLTH 7076** **Health Policy and Public Health Interventions**

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3 units - semester 1

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3 contact hours per week

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Available for Non-Award Study

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Assessment: Assignments, presentation

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This course is designed to provide students with an indepth understanding of public health interventions, at population, community and individual levels. There is consideration of the Ottawa Charter health promotion action areas, including building healthy public policy, creating a supportive environment, strengthening community action, developing personal skills and reorienting health services. The learning about policy considers policy frameworks, instruments, implementation and evaluation.

### **PUB HLTH 7077** **Public Health Practicum (Full time)**

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6 units - semester 1 or 2

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Full semester full time

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Assumed Knowledge: Completion of requirements for Grad.Dip. Pub.Hlth

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Assessment: Written project report, oral presentation, logbook entries and supervisor's report.

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Students are required to undertake a project whilst placed or employed in an approved public health agency. Day to day supervision will be provided by the agency, and the project must address an issue of public health significance. A logbook of activity must be kept, and the assessment is on the basis of a written project report, oral presentation, logbook entries and the supervisor's report.

### **PUB HLTH 7078** **Social Science Research Methods for Public Health**

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3 units - semester 1

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3 contact hours per week

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Available for Non-Award Study

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Assessment: Critical reviews & essay 65%, research grant proposal 15%, research project presentation 20%

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The aim of this course is to develop students' knowledge and understanding of the role and conduct of qualitative research methods in public health. Qualitative research is concerned with exploring the ways in which people interpret and give meaning to their everyday worlds. This type of research is central to how we come to understand public health issues as it provides historical and socio-cultural contexts for health and illness. How, for example, do Hmong women from Laos understand and experience child birthing practices in 'western' style hospitals in Sydney, and how might this information assist in tailoring culturally appropriate health services? Or how do people who are overweight understand future risks to their health?

The course equips students with the skills to review and conduct qualitative research. Students develop the skills to recognise and reflect on the strengths and limitations of different research methodologies, understand the links between theory and practice, critically assess research, and address ethical and practical issues. The course takes a step-by-step approach to the design and implementation of qualitative research and includes; conducting interviews, participant observation, focus groups, textual and media analysis; managing data (including computer assisted); analysing data; and writing and presenting findings.

### **PUB HLTH 7081** **Health Economics**

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3 units - semester 2

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2 contact hour per week

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Available for Non-Award Study

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Assessment: Assignments, essay

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This course introduces basic concepts and practical issues faced by decision makers at all levels in the health system in allocating scarce resources between competing programs and between different consumer groups. There are two strands: firstly, a consideration of how better allocations might be identified and measured; secondly, an examination of models of health system organization which are claimed to better achieve economic efficiency and equity of access. There will be an introduction to the techniques of economic appraisal applied to health interventions, with an emphasis on cost-effectiveness and cost-utility analysis. There will also be an introduction to the price mechanism in the market, and its strengths and limitations in the production and consumption of health services. Incentives operating variously under market and non-market mechanisms in the provision of health care will be explored. The organisation and finance of the Australian health system will be analysed and compared internationally.

## **PUB HLTH 7082** **Advanced Health Economic Evaluation** **& Decision Making**

3 units - semester 1

3 hours

Prerequisite: PUB HLTH 7081 Health Economics

Assessment: Three written assignments and a practical case study

The course will provide state of the art knowledge on key theoretical and practical issues in the application of health economics to inform the efficient and equitable allocation of health care resources within the context of alternative health care systems. The course address a range of topic areas and technologies, expanding students' understanding of market failure in health care, and the issues around the provision of a publicly funded health care system, before focussing on the role of health economics within a publicly funded system. The latter addresses resource allocation frameworks (including new concepts such as price efficiency and the processes for displacement of existing technologies), the conduct of economic evaluation in health care (including alternative decision modelling techniques and methods of analysis, and valuation tools for eliciting utility values), value of information analysis to optimise research funding and methods for estimating hospital efficiency and their funding implications.

The mix of tutorials and practicals will provide opportunities to critique theories and apply methods through specific preparation tasks as well as to work in teams to complete set tasks during the practicals. At the end of the course students will be well qualified for a position in health economics with a university, government or industry employer.

## **PUB HLTH 7083** **Public Health Practicum A (P/T)**

3 units - semester 1 or 2

Assessment: Written project report, oral presentation, logbook entries and supervisor's report

Students are required to undertake a project whilst placed or employed in an approved public health agency. Day to day supervision will be provided by the agency, and the project must address an issue of public health significance. A logbook of activity must be kept, and the assessment is on the basis of a written project report, oral presentation, logbook entries and the supervisor's report.

## **PUB HLTH 7084** **Public Health Practicum B (P/T)**

3 units - semester 1 or 2

Students are required to undertake a project whilst placed or employed in an approved public health agency. Day to day supervision will be provided by the agency, and the project must address an issue of public health significance. A logbook of activity must be kept, and the assessment is on the basis of a written project report, oral presentation, logbook entries and the supervisor's report.

## **PUB HLTH 7100HO** **Foundations of Public Health**

3 units - summer semester

Restriction: Grad Cert, Grad Dip, MPH students

Assessment: assignments, group presentation

This course aims to provide students with a basic understanding of the core concepts in public health. It will begin with an exploration of what is meant by health itself, and how the health of a population can be measured. Then the main types and experiences of disease in the Australian population (and elsewhere) will be considered. This will lead to an analysis of the multifactorial causation of ill health and premature death in populations. After that, the implications for health and related services will be investigated, with an emphasis on prevention and community participation.

No prior specialist knowledge of public health will be assumed.

## **PUB HLTH 7104HO** **Biostatistics**

3 units - semester 2

Restriction: Grad Cert, Grad Dip, MPH students

Prerequisite: PUB HLTH 7101HO at credit level or above

Assessment: to be advised

This course is designed to suit students requiring a high degree of self-sufficiency in the collection, analysis and interpretation of data. The topics will include a selection from: survey sampling methods, non-parametric statistical methods, linear models, analysis of case-control studies, generalised linear models and poisson regression, and survival analysis.

A central feature of the course will be instruction in the use of statistical packages on computers. Emphasis will be placed on data management and manipulation, practical application of statistical skills to real data sets and interpretation of results.

## **PUB HLTH 7105TB** **Diseases of Occupation**

3 units - semester 1

Internal & external mode

Restriction: Grad Cert, Grad Dip, MOH&S students

Available for Non-Award Study

Assessment: Minor assignments, major assignment, participation

This course offers a broad introduction to occupational health and safety. It will address the relationships between work, work processes and work exposures, and the occurrence of disease and injury. The nature, extent and distribution of work-related death, disease and injury will be considered, with special emphasis on the Australian environment. An important aim is to encourage a critical attitude towards health and safety issues, so that students will learn to evaluate problems and formulate appropriate preventive measures on the basis of scientific principles. The elective includes an industrial visit.



## **PUB HLTH 7106HO** **Epidemiological Research Methods**

3 units - semester 2

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Restriction: Grad Cert, Grad Dip, MPH students

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Prerequisite: at least credit in PUB HLTH 7101HO or PUB HLTH 7074

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Assessment: Assignment, exam

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This course concentrates on conceptual and practical issues encountered in the design and interpretation of epidemiological research. Theoretical material as it relates to carrying out such research will include the definition and control of bias and confounding in observational studies, interaction, modern design of case control studies, meta-analysis, clinical epidemiology, descriptive epidemiology, and epidemiology theory. Common pitfalls in epidemiological reasoning are examined, and attention is paid to research design, and critical reading of the research literature. Students are introduced to electronic information resources in epidemiology (listservs, world wide web sites). The course is designed to present students with an up-to-date view of epidemiological research methods.

## **PUB HLTH 7107HO** **Epidemiology of Infectious Diseases**

3 units - semester 2

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Restriction: Grad Cert, Grad Dip, MPH students

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Assessment: Presentation, production of informative class handout, assignment

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The aim of this elective course is to provide a grounding in communicable disease epidemiology of use to students of public health. It assumes no prior specialist knowledge.

An ecosystem approach will be taken to the course. Thus a concentration on sick humans and aspects of their disease is inappropriate. The students will be urged to view infectious disease as a visible manifestation of an ecological problem and to dissect out the agent, host and environmental factors that lead to such phenomena. Such an approach in turn is the basis for the design of feasible public health interventions.

## **PUB HLTH 7108HO** **Public Health Ethics**

3 units - semester 2

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Intensive mode

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Restriction: Grad Cert, Grad Dip, MPH students

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Assessment: Presentation 30%, essay 55%, report 15%

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This course uses the analytical tools provided by ethics and social philosophy to examine public health research, policy and practice. The course includes both foundational elements - an introduction to utilitarianism, liberalism and communitarians as ethical frameworks for public health - and the application of these elements to aspects of: epidemiological research; health promotion; disease prevention and control; public health research and practice in international settings; community based practice and research; and public health policy.

## **PUB HLTH 7111HO** **Occupational Toxicology**

3 units - semester 2

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Restriction: Grad Cert, Grad Dip, MPH students

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Assessment: Assignment, exam

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This course reviews concepts in chemical toxicology which constitute a rational basis for the setting of chemical exposure standards. It includes an overview of the principles of toxicology; biological processes such as toxicant absorption, distribution, metabolism and excretion; the use of toxicity tests and other data to characterise a chemical's toxic effects with specific emphasis on carcinogenicity, mutagenicity, neurotoxicity and developmental toxicity; and the problem of estimating risk.

## **PUB HLTH 7114HO** **National Short Course in Environmental Health**

3 units - semester 2

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Intensive course - 5 days

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Restriction: Grad Cert, Grad Dip, M.OH & S and Pub Hlth students

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Assessment: 2 assignments, subsequent to intensive study period

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This topic is based on an intensive short period of study (5 days). The course outlines the principles of risk assessment and management and will focus primarily on the process of identifying, quantifying, evaluating and managing the effects of population exposures to various environmental contaminants and other factors. 'Risk' will provide the framework, including hazard identification, dose response assessment, exposure assessment and risk characterisation. To address the potential hazards of ambient environmental exposures, various public health disciplines are needed: epidemiology, toxicology, environmental sciences and various policy analysis-related disciplines to appraise and manage risk. The course will illustrate the role of these disciplines in the investigation and management of environmental health problems.

## **PUB HLTH 7115HO** **Public Health Law**

3 units - semester 2

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This course covers the major elements of public health law, the general theories about law and its development in contexts that are important for public health. There will be a detailed analysis of the law relating to the main areas of public health practice, including disease control, environmental health, occupational health, epidemiology, public health litigation and legislation, drug and alcohol controls and health promotion. Current issues in public policy, such as competition policy reform and privatisation are also considered.

**PUB HLTH 7118HO**  
**Public Health Studies**

3 units - semester 1 or 2

Restriction: Grad Cert, Grad Dip, MPH students

Assessment: To be advised

This course, which is offered in response to specific requests, enables students to develop an individualised reading course with an academic staff member in a field of significant public interest. It is not a specific preparation for thesis work. The details of the course are arranged by negotiation between individual students and appropriate teachers within the department, although cooperative arrangements may be organised with other departments or public health agencies. A written plan of study will be developed in consultation with a staff member, including the criteria for formal assessment which may include a seminar presentation.

**PUB HLTH 7119HO**  
**MPH Dissertation (Full-Time)**

12 units - semester 1 or 2

Restriction: MPH students

Prerequisite: completion of MPH coursework

Assessment: dissertation

The dissertation can be the final requirement of the MPH and should therefore reflect what the student has learned from the core and elective course work of the degree program. Unless exempted by the Discipline of Public Health, the dissertation will take the form of a paper suitable for submission to an appropriate peer reviewed journal. The content of this paper must reflect the research topic. The successful completion of this paper fulfils the requirements for a dissertation.

\* exemptions will be rare but may be necessary in some circumstances to avoid significant disadvantage to a particular student.

**PUB HLTH 7120HO**  
**MPH Dissertation (Part-Time)**

6 units - semester 1 or 2

Restriction: MPH students

Prerequisite: Completion of MPH coursework

Assessment: dissertation

The dissertation can be the final requirement of the MPH and should therefore reflect what the student has learned from the core and elective course work of the degree program. Unless exempted by the Discipline of Public Health, the dissertation will take the form of a paper suitable for submission to an appropriate peer reviewed journal. The content of this paper must reflect the research topic. The successful completion of this paper fulfils the requirements for a dissertation.

\* exemptions will be rare but may be necessary in some circumstances to avoid significant disadvantage to a particular student.

**PUB HLTH 7147HO**  
**Health Technology Assessment**

3 units - semester 2

Assumed Knowledge: PUB HLTH 7101HO, PUB HLTH 7074

Assessment: participation in tutorials & practicals, assignments, major assignment - attendance at all sessions a prerequisite for passing this course

This course will take a broad view of the impact of health technologies such as medical procedures, medical devices, pharmaceuticals and public health interventions on population and individual health. Emphasis will be placed on methods for the systematic review of safety, effectiveness and economic efficiency; and on the implementation of the findings of health technology assessment into clinical and public health practice. Attention will also be given to the diffusion of technological innovations within their social, cultural and ethical context; to horizon scanning; to the structure of the international health technology industries; and to the operation of health technology regulatory mechanisms.

**PUB HLTH 7148HO**  
**Environmental and Occupational Health (CMVH)**

3 units - winter semester

Online - Internal mode depending on numbers

Restriction: Defence Force personnel only

Assessment: Tutorial assignments, essays

This course aims to introduce a range of environmental factors, which may pose a risk to the health of human populations. It also addresses risk assessment and management methods for evaluating and controlling such risks. A variety of diseases associated with exposure to common occupational and environmental factors will be discussed. In addition, there will be an overview of the historical, legislative and administrative aspects of occupational health.

**PUB HLTH 7150HO**  
**Dental Public Health**

3 units - semester 2

Restriction: Grad.Cert, Grad.Dip, Master of Public Health students

Assessment: To be advised

This course is designed to suit students requiring specific understanding of dental public health. The course will focus on (a) the assessment of various oral disease levels and related problems, identification of prevention and control measures, selection and implementation of appropriate measures and evaluation of the results; (b) the structure of existing dental care programs, the coverage of the community and integration and organisation of all types of dental resources including the supply, distribution and utilisation of dental personnel, facilities and funds.

# Soil & Water

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## SOIL&WAT 7002WT

### Soil Management and Conservation

3 units - semester 1

2 lectures, 4 hours practical work (or equiv.) a week

Prerequisite: SOIL&WAT 2005WT or SOIL&WAT 2012WT (taken as SOIL&WAT 7003WT)

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 7003WT

### Topics in Soil and Land Systems

3 units - semester 1 or 2

2 hour lecture per week, 6 x 4 hour practicals, 3 x 3 hour tutorials per semester

Prerequisite: Appropriate degree in Science, Agric.Science or Env. Science

This course may be offered from time to time as a means of examining current topics in soil science, soil management and land evaluation that are related to the research and teaching interests of staff and visiting scientists. Candidates should consult the Head of the Discipline for topics currently available.

## SOIL&WAT 7005WT

### Environmental Toxicology and Remediation

3 units - summer semester

Prerequisite: Credit or higher in PLANT SC 1001RW or a Pass in CHEM 1100 and CHEM 1200 or CHEM 1101 and CHEM 1201 or equiv.

Incompatible: SOIL&WAT 3004WT Environmental Toxicology

Assessment: Theory, practicals/assignments

The goals of this course are to provide students with an understanding of the monitoring, fate and risk assessment of contaminants in environmental and biological systems. Classes of contaminants discussed include heavy metals, pesticides, and other water-, soil- and food-borne toxicants. The properties of contaminants which influence their environmental distribution and transformations and the characteristics of the environment which influence contaminant toxicity to organisms are discussed. Students are introduced to the principles of toxicology necessary for an understanding of the environmental consequences of contaminants.

## SOIL&WAT 7007WT

### GIS for Environmental Management

3 units - summer semester

15 days during the summer vacation

Assumed Knowledge: Basic computing skills in Windows environment

Incompatible: SOIL&WAT 3014WT

Assessment: Practical exercises, case study, written exam

The course deals with concepts and theory of geographic information systems and their use for environmental mapping, spatial modelling and analysis. Topics covered include the relationship of GIS models to real world perception and map representation, vector and raster systems; spatial modelling; translation of problems into GIS procedures; attribute manipulation and recoding, operations including arithmetic and Boolean overlay, reclassification, proximity and neighbourhood analyses; input of data to GIS; database structures; interpolation of surfaces from point and vector data; applications and case studies. Practical work uses PC-based software to teach basic skills in GIS data entry, analysis and output, emphasising a problem-solving approach through environmental and agricultural GIS case studies.

## SOIL&WAT 7008

### Remote Sensing

3 units - semester 2

1 x 2 hour lecture per week, 1 x 3 hour practical per week

Incompatible: GEOLOGY 3010

Assessment: Practical exercises, written assignments and exam

The course deals with use of satellite and airborne imagery for environmental and agricultural applications such as land mapping, site evaluation and monitoring degradation and change. Topics include the interaction of electromagnetic radiation with the earth's surface, spectral characteristics of earth surface materials, the nature of imagery collected by a variety of current earth-observation sensors, the use of this imagery for detecting, mapping and monitoring environmental features, collection of field data to interpret imagery, integration of remote sensing and geographic information systems (GIS) for environmental monitoring and modelling, and specialised forms of imagery such as radar, thermal, airborne video and digital photography. Practicals use computer-based image analysis software to enhance and interpret digital images, produce thematic maps, analyse change over time and combine images and map data. Field-based practicals include the use of spectroradiometers for collecting reflectance data about land cover.

## SOIL&WAT 7022WT

### Topics in Soil and Land Systems B

2 units - semester 1 or 2

12 lectures or equiv, associated practical work - may be presented as intensive short course

Prerequisite: Appropriate degree in Science, Agric. Science, Env. Science or equiv

This course may be offered from time to time as a means of examining current topics in soil and water management and conservation and land evaluation that are related to the research interests of staff and visiting scientists. Candidates should consult the Head of Discipline for topics currently available.

**SOIL&WAT 7024WT**  
**Soil Ecology and Nutrient Cycling**

3 units - semester 1

2 lectures, 4 hours practical work (or equiv) a week

Prerequisite: SOIL&WAT 2005WT or SOIL&WAT 1000RW

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.

**SOIL&WAT 7025WT**  
**GIS for Agricultural Sciences**

3 units - semester 2

1 x 2 hour lecture per week, 1 x 4 hour practical per week

Incompatible: SOIL&WAT 3007WT and SOIL&WAT 3014WT

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.

# Surgery

**SURGERY 7001HO**  
**Minimally Invasive Surgery Theory 1**

3 units - semester 1

3 hours

Restriction: MMIS students only

Assessment: Exam

The course will provide students' with a theoretical and practical understanding of the relevant anatomy for laparoscopic surgery and physiological changes of minimally invasive surgery.

This course addresses a range of topics and technologies aimed at expanding students' understanding of the relevant anatomy and pathophysiology for minimally invasive surgery. It will focus on the physiological changes that occur as a result of penumo peritoneum; the immunological ramifications of laparoscopic surgery; and the course will also look at the issues surrounding cancer and the appropriate use of minimally invasive surgery techniques in its management.

The course will use specific minimally invasive surgical cases as a method of demonstrating these principles. At the end of the course students will have a sound theoretical basis for the performance of minimally invasive surgery. A mix of lectures and tutorials will be provided for the students to discuss and develop a significant knowledge base.

**SURGERY 7002HO**  
**Minimally Invasive Surgery Theory 2**

3 units - semester 2

3 hours

Restriction: MMIS students only

Prerequisite: Minimally Invasive Surgery Theory 1

Assessment: Examination 100%

The course will cover key issues in the application of minimally invasive surgery. It will provide teaching on the ergonomics of minimally invasive surgery, the theory of dissection devices including structure, use and care of laparoscopic equipment and the energy sources and vessel ligation systems used for laparoscopic dissection. It will also address the possible complications of minimally invasive surgery and how to avoid and treat them. Pain management following laparoscopic surgery will be dealt with along with fast track recovery techniques following minimally invasive surgery. The course will use specific minimally invasive surgical cases as a method of teaching and analysis.

The mix of lectures and tutorials will provide opportunities for students to familiarise themselves with new technology on minimally invasive techniques.

## **SURGERY 7003HO** **Minimally Invasive Surgery-Research & Development 1**

3 units - semester 1

1 hour

Restriction: MMIS students only

Assessment: To be advised

This course encourages students' to carry out their own research into relevant topics with minimally invasive surgery. Students will carry out literature reviews before designing an appropriate research project based around minimally invasive surgery. Their choice of research project will be supervised by senior surgical clinicians. Students will learn how to appraise relevant scientific literature and to summarise findings based on logical argument and evidence based information.

There will be tutorials but the emphasis will be on independent study where students will be expected to work autonomously but with the provision of supervision where and when they require it.

## **SURGERY 7004HO** **Minimally Invasive Surgery-Research & Development 2**

3 units - semester 2

1 hour

Restriction: MMIS students only

Prerequisite: Min Inv Surgery-Research & Development 1

Assessment: To be advised

This course will bring together work from Semester 1 MIS0002 to enable students to summarise available literature findings and design a research project to review the current literature and produce an article in their chosen speciality (Upper GI, Colorectal, Renal Transplant Surgery, Gynaecology, Vascular or Urology) suitable for publication in a peer reviewed journal.

## **SURGERY 7005HO** **Minimally Invasive Surgery-Clinical Practice 1**

6 units - semester 1

12 hours

Restriction: MMIS students only

Assessment: Exami

The course will provide comprehensive clinical training to a high level of competency in the practice of minimally invasive surgical techniques.

The teaching of minimally invasive surgical techniques will start with the introduction and use of high fidelity virtual laparoscopic trainers and the completion of a metric based training course on the virtual laparoscopic trainer. Once basic skills have been taught students will observe cases in the operating room. Operating set-up, equipment use and trouble-shooting of equipment failure will be taught. The student will then progress to assisting at minimally invasive surgical procedures. Pre-operative patient assessment and counselling and post-operative fast-track recovery management will be emphasised.

This course is a combination of individual mentoring and small group tutorials.

## **SURGERY 7006HO** **Minimally Invasive Surgery-Clinical Practice 2**

6 units - semester 2

12 hours

Restriction: MMIS students only

Prerequisite: Min Inv Surgery-Clinical Practice 1

Assessment: Exam

With increasing experience students will, under supervision, perform minimally invasive surgical cases. Mentoring will be provided during the procedures and the procedures will be recorded and reviewed with students on a weekly basis to provide feedback on minimally invasive surgical techniques. AT the end of Semester 2 students will have created an instructional DVD on a minimally invasive surgical procedure.

# **Trade**

## **TRADE 5000** **International Trade: Negotiations & Agreements**

3 units - semester 1

3 x 1.5 day intensive modules

Restriction: Completed Bachelor degree ideally in Economics, Law, Commerce or Business Administration

Assessment: Class participation, 1500 word project at conclusion of Modules I & II, final exam

The course consists of three modules: Module I: Trade in the Modern World Economy: an introduction to the global economy and international trade; gains from trade; global and regional agreements and institutions; social issues and international trade. Module II: Trade Agreements and Instruments of Trade Policy: main agreements in the WTO trading system; understanding schedules of concessions in goods, services & agriculture; conduct of trade negotiations. Module III: Negotiation of Trade Agreements: regional and bilateral free trade agreements; dispute settlement in WTO and Australia's FTAs; organisation of the Australian government on trade issues; main issues in WTO and FTA negotiations.

## **TRADE 5001** **International Trade: Strategies & Opportunities**

3 units - semester 2

3 x 1.5 day intensive modules

Restriction: Completed Bachelor degree ideally in Economics, Law, Commerce or Business Administration

Assessment: Class participation, 1500 word project at conclusion of Modules IV & V, final exam

The course consists of three modules: Module IV: New Opportunities in International Trade: politics of trade negotiations; dealing with unfair competition; new opportunities - China, Chinese Taipei and the WTO; understanding statistics and other trade information. Module V: Practical Aspects of International Trade: practical preparations for entering export markets;

partnership possibilities in international trade; assistance in exporting. Module VI: WTO's 'New Issues': services, intellectual property rights, competition policy and investment.

### **TRADE 5002** **Project in International Trade**

0 units - semester 1 or 2

Restriction: Successfully completed TRADE 5000 & 5001

Assessment: Final project addresses the key elements of all six TRADE 5000 and TRADE 5001 modules

In order to receive the Professional Certificate in International Trade, candidates are required to successfully complete TRADE 5000, 5001 and 5002.

## **Urban Planning**

### **PLANNING 7026** **State of the City**

3 units - semester 1

Up to 3 hours of lectures and tutorials per week

Restriction: MPlan and MPlan (UD) students only

Available for Non-Award Study

Quota will apply

Assessment: Assignments

This course is an interdisciplinary offering which serves as a foundational course for the Masters of Planning. Here the major issues confronting the cities of today are situated with an exploration of their precedence across time and place. The socio-political, cultural, and environmental forces that have shaped cities globally are examined as is the seminal urban form that developed. Delivered in lecture format, the supporting readings will include such leading urban theorists and historians as Peter Hall, Spiro Kostof, Jane Jacobs, Robert Fishman, Lewis Mumford and Dolores Hayden.

### **PLANNING 7027** **Urban Design Principles**

3 units - semester 1

Up to 3 hours of lectures and studio per week plus field trips

Restriction: MPlan and MPlan (UD) students only

Available for Non-Award Study

Quota will apply

Assessment: Assignments

This course surveys the current thinking in respect to Urban Design and its principles. Beginning with discussion of what is Urban Design and who are the key initiators of it, the course explores the tools, both analytical and creative, that Urban Designers need to execute their craft. It surveys the primary building blocks of cities: the Street, the Square, the Park, Urban Functions such as Transport nodes and Retail typologies. It also discusses lessons about urban form, from historical precedents such as the Medieval city, the Baroque city, the Metropolis, the Garden City and the Modern city. The course focuses on the current arguments about the

density of cities. The texts that supplement this offering are from Camillo Sitte, Allan Jacobs, Rem Koolhaas, Ebenezer Howard, Kevin Lynch, to Robert Bruegmann and the New Urbanists.

### **PLANNING 7028** **Design Communications**

3 units - semester 1

Up to 3 hours of lectures and studio per week

Restriction: MPlan and MPlan (UD) students only

Available for Non-Award Study

Quota will apply

Assessment: Assignments

This course aims to develop basic skills in written, graphic and verbal communication about design in the built and natural environments between professionals and between professionals and the public. The course includes manual and digital graphic techniques, including typical communications software.

### **PLANNING 7029** **Planning Professional Practice**

6 units - semester 2

Up to 6 hours of lectures and studio per week

Restriction: MPlan and MPlan (UD) students only

Assessment: Assignments

This course examines the professional practice and management of planning in government and private practice and the legal framework within which it operates. Topics include: ethical practice; the character and operation of planning offices in state and local government; applicable law; the processes of development planning and control, and associated issues of environmental impact, judgment in multi-criteria situations, and aesthetic preferences; professional memberships and registration; risk and professional liability; and personal career planning.

### **PLANNING 7030** **Urban Design Project**

6 units - semester 2

Up to 6 hours of lectures and studio per week

Restriction: MPlan and MPlan (UD) students only

Assessment: Assignments

This course focuses on the definition, development and description of a major culminating urban design project that both challenges and demonstrates students' skills and knowledge of urban design. The project will be of moderate complexity. Responses should demonstrate competency in most phases of urban design thought and practice, including a final presentation that should show a thorough integration of all major urban design aspects of the academic program and relevant broader planning knowledge.

## PLANNING 7031

### Planning and Landscape Ecology

6 units - semester 1

Up to 12 hours of lectures and studio per week

Restriction: MPlan, MPlan(UD), MLArch, B.L.Arch. and MLArch/Mplan(UD), MArch/MLArch, B.Arch/B.L.Arch. students only

Assessment: Assignments

This course interrogates the roles of planning and landscape ecology in the curatorship and modelling of landscapes. The focus is sustainable and ecologically responsive communities and productive landscapes and uses a range of mapping and assessment methodologies to consider topics including visual quality and evaluation, ecological modelling, vulnerability and risk analysis, environmental psychology, arid design and planning, natural resource management, and regional/periurban planning scenarios, environmental impact assessment and post-design user evaluation.

## URBH 7000A/B

### Research Methodology and Dissertation F/T

24 units - full year

2 hour seminar

Restriction: Master of Urban Habitat Management students only

Prerequisite: 24 unit of Urban Habitat Management courses

Assessment: 15,000-20,000 word dissertation

This course will introduce students to the methodology of Urban Habitat Management research and assist them to acquire the skills necessary to plan, undertake and present successfully the results of research in this field. To complete the course, student must meet regularly with their dissertation supervisor, submit a satisfactory proposal for a research topic and a satisfactory research plan early in the course, provide a satisfactory account of progress made with the research topic midway through the course, and submit a satisfactory dissertation on the methodology and results of the research and deliver a seminar on their work by the end of the course.

## URBH 7001A/B

### Research Methodology & Dissertation P/T

24 units - full year

Restriction: M.Urban Habitat Mgt students only

Prerequisite: 24 units of Urb.Hab.Mgt courses

Assessment: 15,000-20,000 word dissertation

This course will introduce students to the methodology of Urban Habitat Management research and assist them to acquire the skills necessary to plan, undertake and present successfully the results of research in this field. To complete the course, students must meet regularly with their dissertation supervisor, submit a satisfactory proposal for a research topic and a satisfactory research plan early in the course, provide a satisfactory account of progress made with the research topic midway through the course, and submit a satisfactory dissertation on the methodology and results of the research and deliver a seminar on their work by the end of the course.

## URBH 7002

### Research Project F/T

12 units - semester 1 or 2

Restriction: M.Urban Habitat Mgt

Prerequisite: 12 units of Urb.Hab.Mgt courses

Assessment: Seminar presentation, research project report

This course will provide students with the opportunity to spend a semester conducting a research project under the direction of a University of Adelaide supervisor and, where necessary, liaise with a Biocity partner. The research project will contribute to the policy development, planning, management or research activities relating to urban environments and/or BioCity. The role of the University supervisor will be to assist students to acquire any skills necessary to undertake the research project and to prepare the research project paper.

## URBH 7003A/B

### Research Project P/T

12 units - full year

Restriction: M.Urban Habitat Mgt

Prerequisite: 12 units of Urb.Hab.Mgt courses

Assessment: Seminar presentation, research project report

This course will provide students with the opportunity to spend a semester conducting a research project under the direction of a University of Adelaide supervisor and, where necessary, liaise with a Biocity partner. The research project will contribute to the policy development, planning, management or research activities relating to urban environments and/or BioCity. The role of the University supervisor will be to assist students to acquire any skills necessary to undertake the research project and to prepare the research project paper.

## URBH 7102

### Internship in Urban Habitat Management

6 units - semester 1

Restriction: Grad.Dip. & M.Urb.Hab.Mgt

Prerequisite: 12 units Urb.Hab.Mgt courses

Assessment: Seminar presentation, project report

This course will provide students with the opportunity to spend a semester as a professional 'intern' working either within a government, community-based, business or industry organisation or with a University of Adelaide researcher, while completing supervised project work in the field of Urban Habitat Management.

Student placements will depend on the availability of internship opportunities. It is the responsibility of the student to find a suitable industry partner and to secure a member of academic staff to supervise their project. These arrangements must be made prior to the student enrolling in the Internship course.

The seminars during the first part of the course will be used to prepare students for their internships, while those during the second part will be used to monitor the progress of the internships and assist students to prepare their project reports.

## **URBH 7202** **Internship in Urban Habitat Management**

6 units - semester 2

This course will provide students with the opportunity to spend a semester as a professional 'intern' working either within a government, community-based, business or industry organisation or with a University of Adelaide researcher, while completing supervised project work in the field of Urban Habitat Management.

Student placements will depend on the availability of internship opportunities. It is the responsibility of the student to find a suitable industry partner and to secure a member of academic staff to supervise their project. These arrangements must be made prior to the student enrolling in the Internship course.

The seminars during the first part of the course will be used to prepare students for their internships, while those during the second part will be used to monitor the progress of the internships and assist students to prepare their project reports.

## **Viticulture**

### **VITICULT 7001WT** **Advances in Viticultural Science**

3 units - semester 2

1 x 1 hour Lecture per week

Restriction: Postgraduates

Assessment: Assignments, presentations

Current research in viticultural science will be examined through tutorial-based discussion of seminal research papers and attendance at research seminars. Current problems and challenges in viticulture will be focused upon, that may include: water use efficiency, canopy management, irrigation techniques, salinity, flavour development, nutrient use efficiency, and manipulation of vines for fruit quality.

### **VITICULT 7002WT** **Viticultural Science**

3 units - semester 2

5 full days in Orientation week, 1 x 2 hour Lecture, 1 x 4 hour Practical per week

Assessment: Final exam, mid-term exam, practical reports, practical exam

This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students

NOTE: Viticultural Science begins on the Monday of O-Week - Attendance at these classes is required for completion of the course

Viticultural Science covers the entire life cycle of the cultivated grapevine with an emphasis on fruit production for wine making. The practical component of the course takes advantage of the vine growth phases that occur from flowering and fruit-set leading up to harvest. Topics covered include: The growth cycle of the grapevine and the biology that underpins the different phenological

stages. Grapevine physiology as it is relevant to growth and vine form, flowering, water use, mineral nutrition, berry development and ripening. Grapevine anatomy of the vegetative and reproductive parts. Techniques to monitor berry maturity development, and yield potential. Taxonomy of grapevines, characteristics of fruiting varieties and variety identification. Tutorial and practical sessions will focus in more depth on the following topics: vine and bud anatomy, shoot and fruit based variety identification, and yield estimation, canopy measurements, maturity sampling and grapevine mineral nutrition.

Approximately one half of the lectures encompassing Viticultural Science will be provided from Botany II. The selection of lectures from Botany II will cover topics relating to the general principles of plant biology including structure and function, systematics, floral biology and the physiology of growth and development. These lectures are intended to complement the Viticulture based lecture material of Viticultural Science with topics of whole plant biology that are common amongst most plant systems.

### **VITICULT 7008WT** **Grape Industry Practice, Policy and Communication**

2 units - semester 1

1 x 4 hour Lecture, 1 x 3 hour Practical per week for half semester

Assessment: Written assignments, seminar participation, presentation

This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students

The aims of the course are the development of a mature understanding of wine in society, the refinement of students abilities in written and spoken communication and the provision of a forum for the exchange of information between students and wine industry professionals. Invited speakers explore important issues including occupational health and safety, alcohol awareness and current practices in Australia and the world. Emphasis is placed on student participation in questions, discussions and sensory sessions.

### **VITICULT 7021WT** **Viticultural Production**

3 units - semester 2

2 x 2 hour Lectures per week

Assumed Knowledge: VITICULT 7002WT

Incompatible: VITICULT 7007WT

Assessment: Exam, assignments

This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students

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 7038WT**

#### **Viticultural Methods and Procedures**

3 units - semester 2

1 x 1 hour Lecture, 1 x 1 hour Tutorial, 1 x 4 hour Practical per week

Assumed Knowledge: VITICULT 7002WT

Assessment: Assignments, practical reports, exam

This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students

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 - phenological 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.

### **VITICULT 7230WT**

#### **Viticultural Practice**

3 units - semester 2

2 tutorials in semester preceding field work, student seminar presentations, fieldwork completed in summer break

Assumed Knowledge: VITICULT 7002W, 7038WT & 7021WT

Assessment: Logbook, research & other projects, employers report

Students will complete 10 weeks of work in a large commercial vineyard providing an opportunity to experience, observe and report on the major activities undertaken in a typical vineyard operation.

## **Water Resource Management**

### **WRM 7000**

#### **Global Water Systems I - Natural Cycle**

3 units - semester 1 or 2

24 hours lectures, 12 tutorials

Available for Non-Award Study

Assumed Knowledge: SACE Stage 2 Mathematical Studies or equiv

Assessment: Exam 50%, project work 50%

This course is designed to provide better understanding of global water issues as well as interaction between the water cycle and the aquatic ecosystem.

The course also provides insights into the challenges of water usage for health and well being, protecting ecosystems, competing needs in urban, rural and agricultural environment.

### **WRM 7002**

#### **Global Water Systems II - Engineered Water Cycle**

3 units - semester 1 or 2

24 hours lectures, 12 tutorials

Available for Non-Award Study

Assumed Knowledge: SACE Stage 2 Mathematical Studies or equiv

Assessment: Exam 50%, project work 50%

To provide an understanding of how the natural water cycle is influenced by human activities. To understand how engineering activities control the flow and quality of water for urban, industrial, commercial and agricultural use. To understand how stormwater and wastewater are treated and managed.

### **WRM 7003**

#### **Water Resources and Society**

3 units - semester 1 or 2

24 hours lectures, 12 tutorials

Available for Non-Award Study

Assumed Knowledge: SACE Stage 2 Mathematical Studies or equiv

Assessment: Exam 50%, project work 50%

Topics to be covered include: history of global water resource development; dependencies between human users and water resources; geopolitics and hydro-politics of water; water and society; the market in water: water ownership and water trading; sustainability in water management.

### **WRM 7004**

#### **Water Resources Planning and Management**

3 units - semester 1 or 2

24 hours lectures, 12 tutorial

Available for Non-Award Study

Assumed Knowledge: SACE Stage 2 Mathematical Studies or equiv

Assessment: Exam 50%, project work 50%

To provide an understanding of issues associated with the planning and management of water resources taking into account sustainability, economic, environmental and social issues. To provide techniques to assist in the rational planning and management of these resources

**WRM 7005**  
**Minor Industry Project**

6 units - semester 1 or 2

72 hours

Assumed Knowledge: WRM 7000, WRM 7002, WRM 7003, WRM 7004

Assessment: Project

The process and purpose of professional reflection and journal keeping. Participate in one or more commercially relevant projects in a manner like an employee of the company in which the placement is conducted. Reflect on the experience of working in the company where the placement is conducted and learn effective and appropriate personal and professional strategies for working in the area of water resources management.

**WRM 7006**  
**Major Industry Project**

12 units - semester 1 or 2

144 hours

Assumed Knowledge: WRM 7000, WRM 7002, WRM 7003, WRM 7004

Assessment: Project

The process and purpose of professional reflection and journal keeping. Participate in one or more commercially relevant projects in a manner like an employee of the company in which the placement is conducted. Reflect on the experience of working in the company where the placement is conducted and learn effective and appropriate personal and professional strategies for working in the area of water resources management.

**WRM 7007**  
**Research Methodology**

3 units - semester 1 or 2

36 hours

Available for Non-Award Study

Assumed Knowledge: SACE Stage 2 Mathematical Studies or equiv

Assessment: Assignments

An introduction to research methodology particularly applied to water resources management.

**WRM 7008**  
**Research Project**

12 units - semester 1 or 2

144 hours

Assumed Knowledge: WRM 7000, WRM 7002, WRM 7003, WRM 7004, WRM 7007

Assessment: Project

A minor research project in water resources management involving the equivalent of one semester's work.

**WRM 7009**  
**Specialised Studies I**

3 units - semester 1 or 2

24 lectures, 12 tutorials

Available for Non-Award Study

Assumed Knowledge: SACE Stage 2 Mathematical Studies or equiv

Assessment: Exam, assignments

This course provides for specialised study in a particular aspect of water resources management. It may contain a component of guided reading and assignments instead of lectures and tutorials.

**WRM 7010**  
**Wastewater Engineering and Design**

3 units - semester 1

36 hours lectures, tutorials, project work

Available for Non-Award Study

Assessment: Projects & exam

Characteristics of wastewater; primary, secondary and tertiary treatment methods; sludge disposal; project: design of wastewater treatment plant; includes Masters level project.

**WRM 7011**  
**Environmental Modelling, Management and Design**

3 units - Not offered in 2009

Project work; directed study

Available for Non-Award Study

Assessment: To be advised

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. Includes Masters level project.

**WRM 7012**  
**Water Resources Optimisation and Modelling**

3 units - semester 2

36 hours lectures, tutorials, directed study

Available for Non-Award Study

Assessment: Projects, assignments & exam

Topics selection from: Optimisation and computer simulation techniques applied to the planning and operations of water resources systems; multiobjective planning; assessment of risk, uncertainty and reliability; design project. Includes Masters project.

### **WRM 7013**

#### **Water Distribution Systems and Design**

3 units - semester 2

36 hours lectures, tutorials, directed study

Available for Non-Award Study

Assessment: Projects & exam

Water distribution systems analysis. Steady state analysis of pipe networks. Alternative formulations of equations for pipe networks. EPANET. Computer solution techniques. Optimisation of pipe networks using genetic algorithms. Water hammer analysis. Pump transients. Water hammer in hydro-electric plants. Water hammer control methods. Includes Masters level project.

### **WRM 7014**

#### **Coastal Engineering & Design**

3 units - Not offered in 2009

36 hours lectures, tutorials, project work

Available for Non-Award Study

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; includes Masters level project.

### **WRM 7015HO**

#### **Epidemiology of Infectious Diseases**

3 units - semester 2

Restriction: Grad Cert, Grad Dip, MPH students

Prerequisite: PUB HLTH 7075 or equiv approved by Head of School

Assessment: Presentation, production of informative class handout, assignment

The aim of this elective course is to provide a grounding in communicable disease epidemiology of use to students of public health. It assumes no prior specialist knowledge.

An ecosystem approach will be taken to the course. Thus a concentration on sick humans and aspects of their disease is inappropriate. The students will be urged to view infectious disease as a visible manifestation of an ecological problem and to dissect out the agent, host and environmental factors that lead to such phenomena. Such an approach in turn is the basis for the design of feasible public health interventions.

### **WRM 7017HO**

#### **Biostatistics**

3 units - semester 2

Restriction: Grad Cert, Grad Dip, MPH students

Prerequisite: PUB HLTH 7009HO Intro. to Biostatistics or equiv. approved by Head of School

Assessment: To be advised

This course is designed to suit students requiring a high degree of self-sufficiency in the collection, analysis and interpretation of data. The topics will include a selection from: survey sampling methods, non-parametric statistical

methods, linear models, analysis of case-control studies, generalised linear models and poisson regression, and survival analysis.

A central feature of the course will be instruction in the use of statistical packages on computers. Emphasis will be placed on data management and manipulation, practical application of statistical skills to real data sets and interpretation of results.

### **WRM 7018HO**

#### **Epidemiological Research Methods**

3 units - semester 2

Restriction: Grad Cert, Grad Dip, MPH students

Prerequisite: PUB HLTH 7075 or equiv approved by Head of School

Assessment: To be advised

This course concentrates on conceptual and practical issues encountered by students in the design of epidemiological research. Theoretical material as it relates to carrying out such research will include the definition and control of bias and confounding in observational studies, interaction, modern interpretations of case control studies, meta-analysis, clinical epidemiology, descriptive epidemiology, modern epidemiology theory and screening. Common pitfalls in epidemiological and statistical reasoning are examined, and attention is paid to research design, proposal writing, data presentation, and critical reading of the research literature. Students are introduced to electronic information resources in epidemiology (listservs, world wide web sites). The course is designed to present students with an up-to-date view of epidemiological research methods.

### **WRM 7020HO**

#### **Industrial Toxicology**

3 units - semester 2

Restriction: Grad Cert, Grad Dip, MPH students

Available for Non-Award Study

Assessment: Assignment, exam

This course reviews concepts in chemical toxicology which constitute a rational basis for the setting of chemical exposure standards. It includes an overview of the principles of toxicology; biological processes such as toxicant absorption, distribution, metabolism and excretion; the use of toxicity tests and other data to characterise a chemical's toxic effects with specific emphasis on carcinogenicity, mutagenicity, neurotoxicity and developmental toxicity; and the problem of estimating risk.

### **WRM 7021**

#### **GIS for Environmental Management**

3 units - summer semester

10 days during the summer vacation

Assumed Knowledge: Basic computing skills in Windows

Incompatible: SOIL&WAT 3014WT

Assessment: Practical exercises, case study, written exam

The course deals with concepts and theory of geographic information systems and their use for environmental mapping, spatial modelling and analysis. Topics covered

include the relationship of GIS models to real world perception and map representation, vector and raster systems; spatial modelling; translation of problems into GIS procedures; attribute manipulation and recoding, operations including arithmetic and Boolean overlay, reclassification, proximity and neighbourhood analyses; input of data to GIS; database structures; interpolation of surfaces from point and vector data; applications and case studies. Practical work uses PC-based software to teach basic skills in GIS data entry, analysis and output, emphasising a problem-solving approach through environmental and agricultural GIS case studies.

**WRM 7022**  
**Analysis of Rivers and Sediment Transport**

3 units - Not offered in 2009

36 hours of lectures, tutorials/ design and 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.

**WRM 7023**  
**Water Resources Sustainability and Design**

3 units - semester 1

36 hours of lectures and tutorials

Available for Non-Award Study

Assumed Knowledge: Some Hydrology, Water Engineering

Assessment: Essay, short talk, Masters level 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.

**WRM 7024**  
**Freshwater Ecology**

3 units - semester 1

2 lectures, 4 hours practical work per week

Check with School for Non-Award Study

This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students

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 practical

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.

**WRM 7025**  
**Ecosystem Modelling for Environmental Management**

3 units - summer semester

4 hours lectures, 4 hours practical work per week

Check with School for Non-Award Study

On completion of this course students will be able to apply and develop ecosystem models for; 1) Assessing and forecasting the ecological status of terrestrial and aquatic ecosystems; 2) Decision support for sustainable management of terrestrial and aquatic ecosystems, as well as fisheries systems; 3) Ecological risk assessments regarding population outbreaks or extinction, contamination or pollution of aquatic and terrestrial ecosystems.

Modelling practicals will be conducted by means of complex ecological data and user-friendly software for statistical regression, ordinary differential equations, artificial neural networks and evolutionary algorithms. Existing simulation models for lakes, wetlands, fisheries, forests will also be introduced and applied.

**WRM 7026WT**  
**Integrated Catchment Management**

3 units - semester 2

4 hour lectures, 4 hour practical work per week

Check with School for Non-Award Study

This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students

This course provides participants with an understanding of: 1) Ecological and hydrological processes governing catchment systems, and 2) Concepts for the assessment and management of catchment systems.

Field practicals will be conducted in the Bradbury catchment in order to gain skills for the monitoring, assessment and management of such catchments, and to collect water, soil and vegetation samples. Laboratory practicals will be conducted for the chemical and physical analysis of soil and freshwater samples, and the identification and assessment of vegetation samples.

**WRM 7027**  
**Environmental Economics E III**

3 units - semester 2

2 lectures, 1 tutorial per week

Restriction: WRM students only

Prerequisite: C&ENVENG 3067

Assessment: project, tutorial assignments and final exam

This course studies the application of economic analysis to the management of the environmental and natural resources. We will consider the role of economic theory in understanding and solving environmental and resource

problems and discuss empirical examinations of the theory. Domestic and international policy implications will be addressed. Topics that may be covered include: air and water pollution, sustainability, renewable and non-renewable resource management, and the impact of trade.

## Wine Marketing

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### **WINEMKTG 7003EX/7003WT Advertising and Promotion**

3 units - semester 1

External & Internal: 2 hour lecture, 1 hour tutorial per week

Assumed Knowledge: WINEMKTG 7055WT/7055EX

This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students

This course will provide the student with an overview of the Integrated Marketing Communications process. Students will learn to manage the formal communications process in the context of wine and agricultural businesses. Attention will be paid to developing communication plans and understanding strategic applications of advertising, sales promotion and public relations tools. Students should expect to gain knowledge of communications theory as well as practical application through study of texts and real world cases.

### **WINEMKTG 7005EX/7005WT Wine & Food Tourism and Festivals**

3 units - semester 1

External & Internal: 2 hours lecture, 1 hour tutorial per week

Assumed Knowledge: WINEMKTG 7055WT/7055EX

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 7006EX/7006WT Wine Retail and Distribution Management**

3 units - semester 2

External & Internal: 2 hours lecture, 1 hour tutorial per week

Prerequisite: WINEMKTG 7055WT/7055EX

Assessment: Assignments, exam

This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students

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 7030EX/7030WT Wine and Society**

3 units - semester 1

External & Internal: 2 hours lecture, 1 hour tutorial per week

Assumed Knowledge: WINEMKTG 7055WT/7055EX

This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students

The student will be exposed to studies that cover the history and future of the Australian wine industry, presented in the wider context of European and other New World wine industries. Topics covered include: the origins of grape and wine production, the religious and cultural symbolism of wine, the development of an international wine trade in the 20th century, the role of fashion in wine markets, and examination of wine and other forms of alcohol and health issues. Also covered are alcohol and wine consumption habits and attitudes, education and awareness programs, communication of wine information, food and wine complementarity, labelling and product laws.

### **WINEMKTG 7033WT Research Methodology and Methods**

3 units - semester 1 or 2

Up to 3 hours seminars per week

Prerequisite: Approval of Wine Business program coordinator

Assessment: Written assignments, seminar presentations

This course familiarises the student with the methodology of scientific research in wine business, ie. the system of rules and procedures on which wine business research is based and against which claims for knowledge are appraised; and the methods or techniques commonly used in wine business research, including quantitative techniques and computer techniques. Coverage of techniques emphasises the types of problems each technique is suitable for, and the strengths and limitations of each technique. The first half of the course concentrate on methodology, the second half on methods. Concepts required for writing a research proposal are presented in the first half of the semester. The methods are presented during the second half of the semester. During the second half of the semester, a student completes and successively refines his/her proposal to be presented at the end of the semester.

### **WINEMKTG 7035EX/7035WT International Wine Law**

3 units - semester 1

External & Internal: Up to 3 hours per week (including lectures & tutorials)

Assumed Knowledge: WINEMKTG 7054EX

Assessment: To be advised

This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students

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 7039EX/7039WT** **Applied Marketing Research**

3 units - semester 2

External & Internal: 2 hour lecture, 1 hour tutorial per week

Assumed Knowledge: WINEMKTG 7055WT/7055EX

This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students

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 wine and food 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 new wine or food 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 7049EX/WT** **Global Wine Market**

3 units - semester 1

External & Internal: 2 hour lecture, 1 hour tutorial per week

Restriction: Postgraduate Wine Business

Corequisite: WINEMKTG 7055WT/7055EX

This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students

This course provides students with insights into the structure, mechanisms, regulatory agencies, and complexities of the world wine marketing. It uses a typology of open, government-regulated and emerging wine markets as the frame work within which to present this. In addition, it examines key drivers in the world wine marketing and their impact on wine marketing dynamics and characteristics. Throughout there is an emphasis on wine consumer behavioural aspects and successful marketing strategies employed in the major wine consuming markets.

### **WINEMKTG 7052WT** **Applied Management Science**

3 units - semester 1

1 x 2 hour Lecture per week, 1 x 2 hour Practical per week

Assessment: Theory & practical exams, case studies, other 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 7053EX/7053WT** **Introduction to Managerial & Financial Accounting**

3 units - semester 1

External & Internal: Up to 3 hours per week (incl. lectures, tutorials)

Assessment: Assignments, final open book exams

This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students

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 7054EX** **Legal Issues in Wine Marketing**

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 7055EX/7055WT** **Wine and Food Marketing Principles**

3 units - semester 1

External & Internal: 2 hour lecture, 1 hour tutorial per week

This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students

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 7056EX** **Internet Marketing and E-Commerce**

3 units - semester 1

External

Corequisite: 7055WT/7055EX

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 7057EX/7057WT** **Food Marketing**

3 units - semester 1

External & Internal: 2 hour lecture, 1 hour tutorial per week

Prerequisite: WINEMKTG 7055WT/7055EX Wine and Food Marketing Principles

Assessment: To be advised

This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students

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 7058EX/7058WT** **International Marketing of Wine & Agric Products**

3 units - semester 2

External & Internal: 2 hour lecture, 1 hour tutorial per week

Assumed Knowledge: WINEMKTG 7055WT/7055EX Wine and Food Marketing Principles

This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students

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 7059EX** **Strategic Marketing Management**

3 units - semester 2

External

Prerequisite: WINEMKTG 7055WT/7055EX Wine and Food Marketing Principles

Assessment: To be advised

The critical role of strategic marketing in meeting the challenges facing organisations in complex markets will be the primary focus of this course, and will seek to explore how formulating and implementing unique strategic marketing moves serve not only to ensure survival, but also to yield significant and sustainable competitive advantage.

Drawing on current and emerging perspectives on strategic marketing, the material covered will be structured in terms of a basic strategic marketing model, which deals with company, competition, customer, environment, strengths and weaknesses, objectives and goals, strategy formulations and implementation.

In order to contextualise this material students will be encouraged to develop an understanding of the practical necessity for interdependency and synergy between an organisation's corporate, business, and functional levels of strategy.

## **WINEMKTG 7060EX** **Consumer Behavioural Analysis**

3 units - semester 1

External

Prerequisite: WINEMKTG 7055WT/7055EX Wine and Food Marketing Principles

Assessment: To be advised

The aim of this course is to alert students to the many variables that impact upon the purchase and consumption of goods and services, especially wine. Within this multi-disciplinary course are the studies of perception, attitudes, human motivation, consumer information

processing and decision making, the sociology of people, cultural and sub-cultural variables, group influences and the segmentation of consumers into manageable communicable target groups for wine markets. Knowledge of consumer behaviour provides direction and the basis for wine marketing efforts such as advertising, promotion, public relations, wine packaging, pricing, distribution and the nature of the wine product.

### **WINEMKTG 7062EX** **Microeconomic Principles**

3 units - semester 1

External

Assessment: Assignments, final exam

The course provides an introduction to the essential elements of microeconomics, with emphasis on demonstrating how the understanding of microeconomic principles can lead to better analysis of management and marketing of wine and food products, and government microeconomic policies. Broadly, the course covers how production and consumption decisions of individual economic units are made and coordinated. Specific topics include fundamentals of supply and demand analysis, production economics, analysis of short and long-run costs of production, market structure, pricing policies and methods, market failure, welfare and public policy issues and the markets for factors of production.

### **WINEMKTG 7063EX** **Macroeconomic Essentials for Wine & Food Business**

3 units - semester 2

External

Assessment: Assignments and final exam

This course develops understanding of the macroeconomic environment in which wine and food businesses operate; and the ability to analyse the implications of specific macroeconomic events (eg, change in the interest rate, tax cut, or increasing unemployment) to success and profitability, and marketing strategies of wine and food businesses. Emphasis is on applications and policies, not formal economic theory. Coverage include: measurements of national income, cost of living, and unemployment; productivity and economic growth; the monetary system; the causes and effects of inflation and unemployment; impacts of monetary and fiscal policies; factors influencing the international flows of goods and capital; and current debates over macroeconomic policies.

### **WINEMKTG 7065EX/7065WT** **Database Marketing for Food and Wine Business**

3 units - semester 2

External & Internal: 2 hour lecture, 2 hour practical per week

Prerequisite: WINEMKTG 7055WT/7055EX

Assessment: Assignments, final exam

This course involves teaching sessions that may be attended by both Undergraduate and Postgraduate students

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.

### **WINEMKTG 7066EX/7066WT** **Advanced Wine Marketing A**

6 units - semester 1

External & Internal: 3 hour seminar per week

Restriction: Master of Wine Business

Prerequisite: WINEMKTG 7049WT, WINEMKTG 7055WT, WINEMKTG 7034WT or equiv

Assessment: Assignments, major marketing research project

This course adopts a multi-disciplinary approach integrated with fundamental wine industry practicalities to address key issues of today's wine marketing coalface. Drawing on current and emerging marketing mix perspectives as these relate to the wine market, the emphasis is on areas of wine marketing application such as new wine product development, strategic wine brand building and management, regional branding approaches, wine market segmentation approaches, pricing strategies, wine distribution channel and advertising and promotion issues. Within this wine marketing framework, there is specific focus throughout on various consumer behavioural aspects, competitiveness issues and the important role of the winery cellar door. Students will need to develop an in-depth understanding at an advanced level of how grounded marketing theory principles relate and apply to the wine marketplace and its issues.

The course's most important outcome is a major primary research project, conducted by students individually, to seek solutions to specific wine marketing issue(s). Students will be involved in all aspects of conducting targeted marketing research, including proposal writing, questionnaire development, data gathering, data analysis and interpretation, and report-writing. In the process a statistical software package will be used after impartation of the required level of statistical analysis knowledge and skills.



**WINEMKTG 7067EX/7067WT**  
**Winery Business Management A**

6 units - semester 2

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External & Internal: 2 hour lecture, 1 hour tutorial per week

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Restriction: Postgraduate Wine Business

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Prerequisite: WINEMKTG 7053WT/7053EX, 7055WT/7055EX

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Assessment: Assignments, major project

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This capstone course integrates all of the interfacing elements between wine, business and marketing 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 wine(ry) business), winery cost and management accounting and financial management, strategic winery business management, and organisation development are all examined as these relate to an actual winery. Key focus areas are wine(ry) brand building and management, understanding costs of production, strategic management issues, and financing growth strategies for a wine(ry) business.

Students are required to conduct extensive research of both the winery organisation's internal and external environments, including all its operational and financial issues.

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 a major project in the form of a realistic and fully-integrated 5-year strategic business plan for this operating winery including profit and cash budgets and supporting materials.





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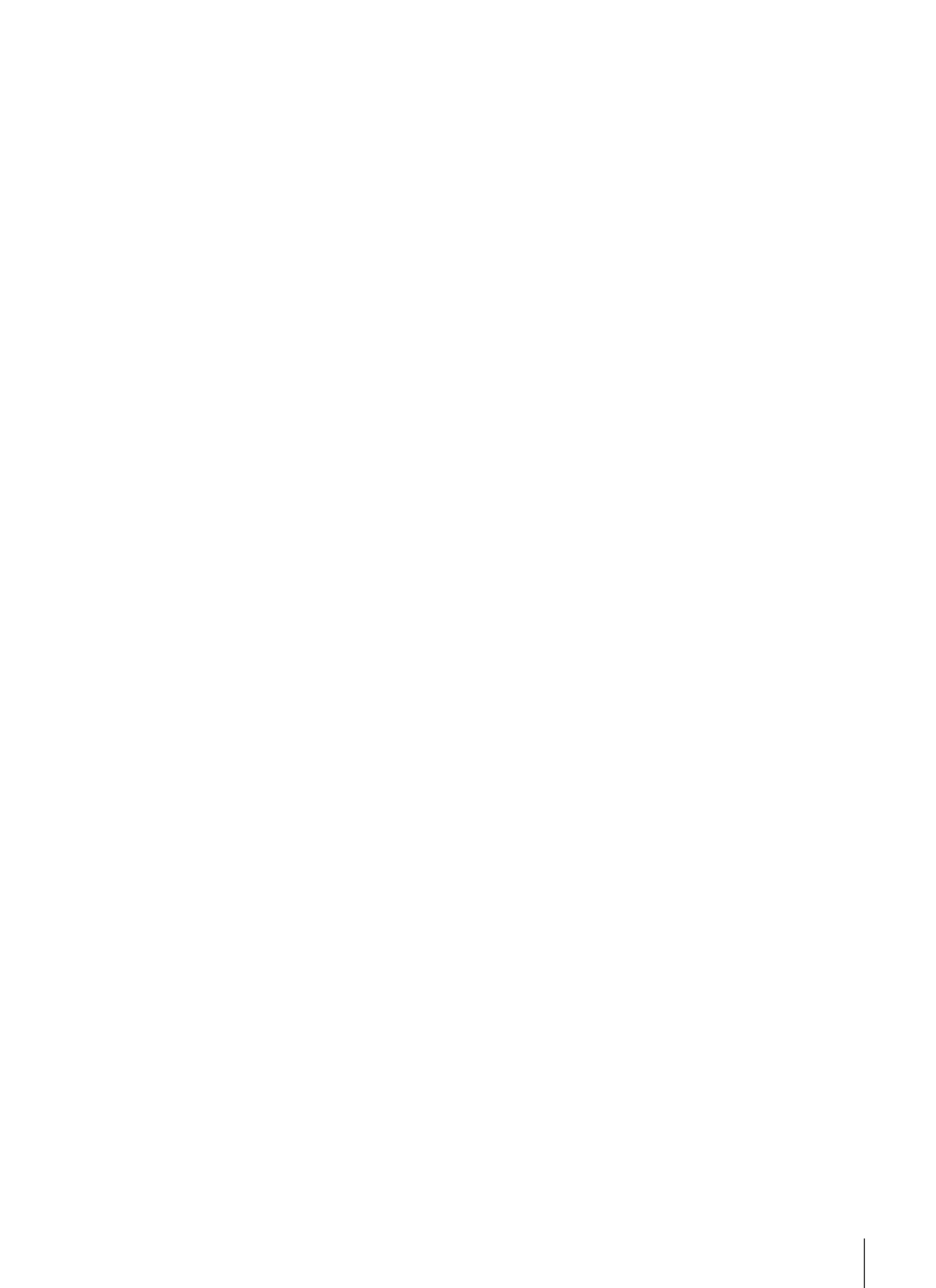
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