

The Faculty of Arts

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The Centre for Arab & Islamic Studies (The Middle East and Central Asia))

Professor Amin Saikal, BA PhD *ANU*,
Director

The Middle East and Central Asia

The Centre for Arab & Islamic Studies (The Middle East and Central Asia) — CAIS — formerly known as the Centre for Middle Eastern and Central Asian Studies was opened in February 1994. It is the first of its kind in Australia, and is the only Centre of learning that focuses on the predominantly Muslim regions of the Middle East and Central Asia together as a major point of attention in the post-Cold War world. The Centre's areas of coverage are: the Arab world, including North Africa, and Iran and Turkey, as well as Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, Uzbekistan, and Afghanistan and Pakistan.

CAIS is a teaching and research Centre, with organic links to The Faculties and professional association with the Institute of Advanced Studies. The primary objectives of the CAIS are fourfold:

- to promote Arab, Islamic, Middle Eastern and Central Asian studies, in both undergraduate and post-graduate domains, at a national level
- to coordinate research by Australian and international academics and specialists
- to provide a pool of expertise for public and private sectors
- to strengthen Australia's ties with the Middle Eastern and Central Asian regions.

The Centre integrates the study of Arab, Middle Eastern and Central Asian culture, civilisation, politics, history and economics, and places these within the broader framework of the changing global order. It examines the role of religion — especially Islam — and fosters the study of the most relevant languages, particularly Arabic and Persian, and looks at gender politics. It also focuses on issues pertinent to Australia's interests in, and the development of its commercial, scientific and industrial ties with these dynamic regions.

In addition to its undergraduate units, the Centre offers Graduate Diploma by coursework, MA by coursework and sub-thesis, and supervision for MPhil and PhD research on a wide range of topics relating to its areas of coverage. The Centre runs a seminar program with visiting speakers and also hosts an annual lecture by a prominent specialist on Islamic civilisation, as well as hosting frequent international conferences.

The undergraduate units offered by the Centre may be included in Arts majors, but are also of relevance to students of Asian Studies, or students in other disciplines who are interested in gaining a knowledge of the Middle East or Central Asia.

The Persian units can be undertaken as single units, or as an Arts major within the Bachelor of Arts course or combined BA degree options.

The Arabic units can be undertaken as single units, or as a language major within the Bachelor of Asian Studies, Faculty of Asian Studies.

The Centre currently offers units in Middle Eastern and Central Asian politics, and two of the major languages of the regions of its coverage Persian and Arabic — although the introduction of the Turkish language is expected in either second semester 2001 or first semester 2002. While a number of these units are offered through the Centre, some of them are offered in conjunction with Political Science (School of Social Sciences, Faculty of Arts), and the Faculty of Asian Studies.

The Centre is responsible for the delivery of three Political Science units: Politics in Central and West Asia POLS2070; Politics in the Middle East POLS2031 and Politics in Russia POLS2069.

Arabic

Convener: Dr Nijmeh Hajjar, Licence ès Lettres, LicInfDoc, *CAPES Beirut*; LicJourCom *Brussels*; PhD *Syd*

Arts students may undertake this major as a major from another faculty. Arabic is not classified as an Arts major and is not available to BA students undertaking a combined degree unless you are enrolled in the Bachelor of Arts/Bachelor of Asian Studies combined degree program.

An Asian Studies major in Arabic requires the completion of a minimum of 48 credit points (normally 8 units) comprising 12 credit points at first year level (2 units) and 36 credit points at later year level (6 units).

The sequence of units for the Arabic major is dependent on the student's reading and language ability.

1. Major for beginners:

Two introductory language units plus Classical Arabic A and B; Media Arabic A and B and Contemporary Arabic Literature A and B. Arts students need only choose 30 credit points at later year Level (5 units).

2. Major for post-beginners:

Classical Arabic A and B; Media Arabic A and B; Contemporary Arabic Literature A and B plus 1 additional unit (Arts major) or 2 units (Asian Studies major).

With the permission of the Convener, a student with appropriate language competence may enter the major without the Introductory Arabic units at first year level.

Summary of units offered in the Arabic major in 2001

	Semester 1	Semester 2
First Year	Introductory Arabic A SWAA1002	Introductory Arabic B SWAA1003
Later years	Classical Arabic A SWAA2004 Contemporary Arabic Literature A SWAA2005 Media Arabic A SWAA2003	Classical Arabic B SWAA2008 Contemporary Arabic Literature B SWAA2006 Media Arabic B SWAA2007
	Year in the Middle East (Arabic) SWAA3500	
	Year in the Middle East Project SWAA3501	

See also the Arabic Program entry under the Faculty of Asian Studies for further details.

FIRST YEAR UNITS

Introductory Arabic A

SWAA1002
(6cp)

First semester

Four class hours a week

Coordinator: Dr Hajjar

Prerequisite: None

Syllabus: This unit assumes no previous knowledge of the language. It covers the Arabic script and sound system and basic grammar rules. The teaching uses an audio-visual and audio-lingual approach, and is designed to develop the four skills of listening, speaking, reading and writing in an integrated way by the use of dialogues in realistic situations, class interaction and oral and written drills.

Prescribed text

□ Brustad, Kristen, and others, *al-Kitaab fii Ta'allum al-'Arabiyya: A Textbook for Beginning Arabic*, Part One, Washington, D.C., Georgetown University Press, 1995

□ The textbook is accompanied by audio and video tapes, which are available in the language laboratory. The lecturer will provide supplementary material.

Introductory Arabic B

SWAA1003
(6cp)

Second semester

Four class hours a week

Coordinator: Dr Hajjar

Prerequisite: Introductory Arabic A or permission of Coordinator

Syllabus: This unit extends Introductory Arabic A. Students will develop their conversational skills, study samples of modern Arabic literature and the press, and undertake translation from and into Arabic. As in the previous unit, grammar is explained in its functional aspect using basic structures of Arabic in realistic situations.

Prescribed text

□ Brustad, Kristen, and others, *al-Kitaab fii Ta'allum al-'Arabiyya: A Textbook for Beginning Arabic*, Part One, Washington, D.C., Georgetown University Press, 1995

□ The textbook is accompanied by audio and video tapes, which are available in the language laboratory. The lecturer will provide supplementary material.

LATER YEAR UNITS

Classical Arabic A

SWAA2004
(6cp)

First semester

Two hours a week

Coordinator: Dr Hajjar

Prerequisite: Introductory Arabic B or equivalent

Syllabus: This unit is devoted to the study of the language and style of classical Arabic literature. It covers more advanced grammar, and students will study samples of classical Arabic works including secular and religious texts.

Prescribed text

□ Yellin, A & Billig, L. (eds.), *An Arabic Reader, Johnson Reprint*

Classical Arabic B **SWAA2008**
(6cp)

Second semester
Two hours a week

Coordinator: Dr Hajjar

Prerequisite: Introductory Arabic B or equivalent

Syllabus: This unit develops the materials of Classical Arabic A.

Prescribed text

□ Yellin, A & Billig, L. (eds.), *An Arabic Reader, Johnson Reprint*

Contemporary Arabic Literature A **SWAA2005**
(6cp)

First semester
Three hours a week

Coordinator: Dr Hajjar

Prerequisite: Introductory Arabic B or equivalent

Syllabus: This unit is devoted to reading texts from modern Arab writers, both fiction and non-fiction, with continuing development of conversational skills.

Prescribed text

□ Photocopied materials from a selection of modern Arabic texts will be provided.

Contemporary Arabic Literature B **SWAA2006**
(6cp)

Second semester
Three hours a week

Coordinator: Dr Hajjar

Prerequisite: Introductory Arabic B or equivalent

Syllabus: This unit is devoted to reading texts from modern Arab writers, both fiction and non-fiction, with continuing development of conversational skills.

Prescribed text

□ Photocopied materials from a selection of modern Arabic texts will be provided.

Media Arabic A **SWAA2003**
(6cp)

First semester
Three class hours, and one hour in the language laboratory a week

Coordinator: Dr Hajjar

Prerequisite: Introductory Arabic B or equivalent

Syllabus: This unit is devoted to the language and style of the Arabic press and radio. The material covers ordinary news items, printed or broadcast. The unit provides students who have mastered basic grammar, with an introduction to the language of the Arabic media and develops their basic listening and interpreting skills.

Prescribed text

□ öAshtiany, J, *Media Arabic*, Edinburgh, 1993

Media Arabic B **SWAA2007**
(6cp)

Second semester
Three class hours, and one hour in the language laboratory a week

Coordinator: Dr Hajjar

Prerequisite: Introductory Arabic B or equivalent

Syllabus: This unit develops further the materials of Media Arabic A.

Prescribed text

□ öAshtiany, J, *Media Arabic*, Edinburgh, 1993

□ The lecturer will provide supplementary material selected from the Arabic press and Arabic broadcasting services, to cover Arab and international current affairs.

Year in Middle East (Arabic) **SWAA3500**
(48 cp)

Full year
Available only to students taking the Bachelor of Asian Studies (Arabic) degree

Prerequisites: Permission of Head of Centre

Syllabus

- (i) An initial unit in colloquial Arabic (Egyptian or Levantine);
- (ii) Continuing Arabic language study, and an intensive program in Arabic during the last ten weeks;
- (iii) Attendance at and reports on a series of seminars at academic institutions in Amman, Beirut, or Cairo; and
- (iv) The preparation of an annotated translation.

Year in Middle East Project **SWAA3501**
(6cp)

Either semester

Available only to students who have completed the Year in Middle East (Arabic)

Syllabus: This unit involves further supervised work on the annotated translation begun during the year in Middle East. The text will have been selected in consultation with the Centre, and the annotated translation should demonstrate that the student has gained mastery over the language used in discourse in his/her chosen area of study, and the ability to position a given text in the relevant scholarly literature.

Persian

Convener: Dr Seyed Mohammad Torabi, MA PhD *Tehran*

The Arts major in Persian requires a minimum of 42 credit points (normally 7 units) consisting of 12 credit points at first year level (2 units) plus 30 credit points at later year level (5 units).

The sequence of units for the Persian major is dependent on the student's reading and language ability.

1. Major for beginners:

Iranian History and Culture MEAS2000 plus six language units.

2. Major for post-beginners:

Iranian History and Culture MEAS2000 plus language units dependent on language proficiency and additional units to achieve the requirement for 42 credit points.

With the permission of the Convener, a student with appropriate language competence may enter the major at Intermediate Persian or Advanced Persian level.

This is a new major and new later-year units will be developed in 2001 and offered in 2002.

Summary of units offered in the Persian major in 2001

	<i>Semester 1</i>	<i>Semester 2</i>
<i>First Year</i>	Introductory Persian A PERS1001 Introductory Persian B PERS1002	Introductory Persian A PERS1001 Introductory Persian B PERS1002
<i>Later years</i>	Intermediate Persian A PERS2003 Intermediate Persian B PERS2004 Advanced Persian A PERS3005 Advanced Persian B PERS3006	Iranian History and Culture MEAS2000 Intermediate Persian A PERS2003 Intermediate Persian B PERS2004 Advanced Persian A PERS3005 Advanced Persian B PERS3006

FIRST YEAR UNITS

Persian Language — Introductory Persian A **PERS1001 (6cp)**

Offered both semesters 2001

Four hours of lectures per week (may include language laboratory sessions).

Lecturer: Dr Torabi

Syllabus

- Sound system and script
- Grammar
- Study of selected texts
- Translation from and into Persian

Proposed assessment: Final examination 50%, attendance/class participation 25%, homework 25%.

Prescribed reading A textbook, audio tape and supplementary materials will be available from the lecturer.

Persian Language — Introductory Persian B **PERS1002 (6cp)**

Offered both semesters 2001

Four hours of lectures per week (may include language laboratory sessions).

Prerequisite: Introductory Persian A (or equivalent prior knowledge, with permission of the lecturer)

Lecturer: Dr Torabi

Syllabus

- More grammar
- Study of some suitable Persian texts
- Translation from and into Persian

Proposed assessment: Final examination 50%, attendance/class participation 25%, homework 25%.

Prescribed reading: A textbook, audio tape and supplementary materials will be available from the lecturer.

LATER YEAR UNITS

Iranian History and Culture **MEAS2000 (6cp)**

Offered in 2001

Second semester

Two lectures and one tutorial per week for eleven weeks

Prerequisite: First year units to the value of 12 cp from Arts or Asian Studies, or with permission of the Director of the Centre.

Lecturer: Dr Torabi

Syllabus: This unit broadly examines the cultural-social values and processes that have formed Iranian civilisation. The unit comprises three sections: ancient, medieval and modern Iran. The student will be introduced to language, literature, art and society in Iran, ranging from ancient Persia to contemporary Iran. The course will seek to analyse a range of topics, which includes the history of Islam in Iran, and its implications for Iranian art and literature, and the expansion of local crafts in Medieval Iran. It will also provide an analysis of the socio-political aspects that came to create modern Iran, emphasising the move towards the constitutional revolution, the consequences of the fifty-year Pahlavi dynasty, and finally the Islamic revolution and its impact on Iranian society and culture.

Proposed Assessment: Essay (3000 words) 45%, final Examination (two hours) 40%, Tutorial assessment 15%

Preliminary reading

- Browne, E., *Literary History of Persia*, Cambridge: Cambridge Press, 1964, Volumes 2–4
- Frye, R. N., *The Golden Age of Persia*, London: Weidenfeld & Nicholson, 1975, Chapter 1 'Past , Present and Future', pp. 1–2
- Adams, C. J. (ed.), *Iranian Civilization and Culture*, Montreal: McGill University Press, 1979

Persian Language — Intermediate Persian A **PERS2003 (6cp)**

Offered both semesters 2001
Four hours of lectures per week (may include language laboratory sessions).

Prerequisite: Introductory Persian B (or equivalent prior knowledge, with permission of the lecturer)

Lecturer: Dr Torabi

Syllabus

- (a) More advanced grammar
- (b) Study of some Persian texts literary texts (particularly Persian prose)
- (c) Advanced translation from and into Persian

Proposed assessment: Final examination 50%, attendance/class participation 25%, homework 25%.

Prescribed reading A textbook, audio tape and supplementary materials will be available from the lecturer.

Persian Language — Intermediate Persian B **PERS2004 (6cp)**

Offered both semesters 2001
Four hours of lectures per week (may include language laboratory sessions).

Prerequisite: Intermediate Persian B (or equivalent prior knowledge, with permission of the lecturer)

Lecturer: Dr Torabi

Syllabus

- (a) More advanced grammar
- (b) Study of some Persian texts literary texts (particularly Persian prose)
- (c) Advanced translation from and into Persian

Proposed assessment: Final examination 50%, attendance/class participation 25%, homework 25%.

Prescribed reading A textbook, audio tape and supplementary materials will be available from the lecturer.

Persian Language — Advanced Persian A **PERS3005 (6cp)**

Offered both semesters 2001
Four hours of lectures per week (may include language laboratory sessions).

Prerequisite: Intermediate Persian B (or equivalent prior knowledge, with permission of the lecturer)

Lecturer: Dr Torabi

Syllabus: This unit builds on the Introductory and Intermediate levels of Persian language and is aimed at developing the student's knowledge and improving their ability in reading, writing and speaking Persian. The grammar in this unit will cover more about prefixes and suffixes as well as adverbs and prepositions. Selected texts will also be studied.

Proposed assessment: Final examination 50%, attendance/class participation 25%, homework 25%

Prescribed reading Course materials will be available from the lecturer.

Persian Language — Advanced Persian B **PERS3006 (6cp)**

Offered both semesters 2001
Four hours of lectures per week (may include language laboratory sessions).

Prerequisite: Advanced Persian A (or equivalent prior knowledge, with permission of the lecturer)

Lecturer: Dr Torabi

Syllabus: This unit will further develop the student's knowledge and improve Persian reading, writing and speaking skills. The unit will deal with Persian literature, both prose and verse, including the three areas of Persian verse: the epic, the lyric and the dramatic, and consider poetic structure such as rhythm, rhyme and rank. Students will read selected texts from Persian prose and poetry.

Proposed assessment: Final examination 50%, attendance/class participation 25%, homework 25%.

Prescribed reading Course materials will be available from the lecturer.

Arts Majors offered by other Faculties

Environmental Studies

Convener: Mr Dumaresq, Geography

Environmental Studies has the broad objective of developing understanding of the interrelationships between human societies and their environment. The areas of study vary from natural ecological and earth processes through environmental management and resource use to cultural ecology and the history of environmental change, perception and philosophy.

At present these two majors incorporate units from the biological and earth sciences, geography, prehistory and anthropology as well as the environmental aspects of law, economics, philosophy and sociology. One associated major, Human Sciences, has its own units and structure, and there are jointly taught units in the School of Resource Management and Environmental Science.

The Environmental Studies majors and the Human Sciences major naturally involve overlap, but have different emphasis and associated majors. There are several recommended sequences for the programs but some combinations between sequences are permissible, and a major can be formed from later-year units if prerequisites are met. Prerequisites for some units, particularly in science, may require additional units to be taken in earlier years, and these should be checked carefully.

Details of ECOS units can be found under the Human Sciences, Faculty of Science entry.

Agroecology

The major brings together the study of traditional and modern agricultural systems. Relevant units are taught in the Faculties of Arts and Science. The focus of the program is on how human societies have provided and can continue to provide food, fibre and water for their members. The core units provide an integrated multi-disciplinary understanding of the ecology of agricultural systems.

Science students should use the following groupings as a guide only, bearing in mind the minimum number of science points needed for their degree.

Arts students should select appropriate units from the following lists and are reminded that a major may consist entirely of 2000 and 3000 level units.

Normal prerequisites apply to all units unless the student obtains exemption from the lecturer in charge of that unit.

The requirements for a major are completion of no fewer than 42 credit points comprising the following:

- (a) *First-year units (only 12 credit points may be counted)*
 ANTH1002 Introduction to Anthropology
 ANTH1003 Global and Local

- PREH1111 Introduction to Archaeology
 PREH1112 From Origins to Civilisations
 GEOG1007 Introduction to Global Change
 GEOG1008 Australia and its Neighbours: A Region in Change
 BIOL1001 Biology A01
 BIOL1002 Biology A02
 BIOL1003 Biology A03

(b) *Plus compulsory core units to the value of 18 credit points:*

- ECOS2001 Human Ecology
 ECOS2002 Agroecology
 ECOS3002 Agriculture and Sustainable Systems

(c) *Normally, a further 12 credit points from the following (or, where the major consists entirely of 2000/3000 level units, not more than 24 credit points):*

- GEOG3010 Environmental Policy and Planning
 PREH2039 The Origins and Dispersals of Agricultural Populations
 PRAN2008 Animals, Plants and People: Ethnobiology and Domestication
 SREM2005 Australian Soils
 SREM3003 Soil Management
 FSTY3056 Farm Forestry
 ECOS3014 Special Topics in Human Ecology
 PREH2041 Introduction to Environmental Archaeology

Environmental Resources

The fundamental nature of environmental resources, essential to life and increasingly subject to conflict over ends and means, makes their study necessarily broad. Relevant units are taught in four faculties, Arts, Economics and Commerce, Law, and Science. Grouping these units appropriately, three separate majors provide different coherent approaches and areas of focus. Common to all of them is the interactive process between humans and their environment at the individual and societal levels.

Students enrolled in the Faculty of Science should use these as a guide only, bearing in mind the minimum number of science points required in their degree.

Students enrolled in the Faculty of Arts should make their selections as indicated under each major below but are reminded that, if desired, a major may consist entirely of 2000 and 3000 level units. No more than five 2000 or 3000 level units from one department may be included in an Environmental Resources major.

Normal prerequisites apply to all such units unless the student obtains exemption from the lecturer in charge of that unit.

Some units are annual units and others one semester units.

Natural Resources concentrates on those resources that provide the essential economic foundation for society, uses Urban Ecology as an integrating core unit and covers economic, legal and management aspects.

The requirements for a major are completion of no fewer than 42 credit points comprising the following:

(a) Group 1 — First-year units (only 12 credit points may be counted)

ECHI1003 Australian Economy (S)
ECHI1001 Australian Economy
ECON1001 Economics I
ECHI1005 Micro Economics for Social Scientists
ECHI1006 Macro Economics for Social Scientists

(b) Group 2 — 18 credit points of which ECOS2004 Urban Ecology is a compulsory unit

ECOS2001 Human Ecology
ECOS2002 Agroecology
ECOS2004 Urban Ecology
ECOS3001 Sustainable Urban Systems
ECOS3002 Agriculture and Sustainable Systems
GEOG2014 Population and Resources
GEOG3010 Environmental Policy and Planning
GEOG2013 People and Environment

(c) Group 3 — at least 12 more credit points from Group 2 or Group 3.

COMM3017 Environmental Accountability and Reporting
ECHI2102 Australian Economic History
ECON2128 Resource Economics
FSTY2102 Natural Resource Economics
LAW3103 Law and the Environment
SOCY2022 Energy, Environment and Society
SOCY2032 Population and Australia

Supporting units in statistics would be an advantage.

Conservation and Recreation combines ecological and social approaches in the study of more general aspects of the environment affecting the quality of life. Geography and Human Sciences provide the integrating themes.

The requirements for a major are completion of no fewer than 42 credit points comprising the following:

(a) Group 1 — First-year units (only 12 credit points may be counted)

BIOL1001 Biology A01
BIOL1003 Biology A03
GEOG1007 Introduction to Global Change
GEOG1008 Australia and its Neighbours: A Region in Change
SOCY1002 The Self and Society
SOCY1003 Contemporary Society
SOCY1004 Introduction of Social Psychology
SREM1003 Managing Earth's Resources

(b) Group 2 — 18 credit points of which ECOS2004 Urban Ecology is a compulsory unit

GEOG2014 Population and Resources
GEOG3010 Environmental Policy and Planning
ECOS2001 Human Ecology
ECOS2004 Urban Ecology
ECOS3001 Sustainable Urban Systems

(c) Group 3 — at least 12 more credit points from Group 2 or Group 3.

FSTY3059 Participatory Resource Management
ECOS3002 Agriculture and Sustainable Systems
FSTY4003 Forest Policy and Planning
LAW3103 Law and the Environment
SOCY2022 Energy, Environment and Society
SOCY2034 Modern Society

Geography and Human Ecology

See also:

- Geography & Human Ecology, Faculty of Science
 - Population Studies Program, Faculty of Arts
 - School of Resource Management & Environmental Science, Faculty of Science
- in this Handbook*

B.G. Lees, BA (Hons), PhD *Syd*
Head of Department

Introduction

Geography and Human Ecology both deal with human–environment interactions.

Geography is about Earth's diversity, its resources, and humankind's survival on the planet. Geographers analyse the associations of things and events that give special character to particular places; the interconnections between different areas; and the working of complex systems through time. Geography is the only academic discipline in which an integrative perspective focusing on spatial relationships and processes is a fundamental concern.

Human Ecology focuses on the health and well-being of the environment using an ecosystems approach. The individual units apply ecological principles to the study of the ecosystems that supply us with biospheric services and renewable resources, as well as the essentially non-renewable resources that we have come to depend upon. The human use of biospheric systems is examined in the certain knowledge that the long term health and well being of people depends upon the continued healthy functioning of prehuman ecosystems.

Both Geography and Human Ecology take an integrative approach to environmental problems and their solution, including the study of economic and social goals and processes that determine strategies of resource use and ecosystem management.

The importance of literacy and numeracy, graphical, verbal and analytical skills, and competence in report preparation and presentation, are stressed in the Department's educational objectives. The Department has a particular focus on the practical application of GIS and computational methods. Tutorials, laboratory work and field work are an integral part of most units. Fieldwork usually involves weekend trips or a period of up to one week during the teaching breaks. Students will be expected to meet costs for meals, accommodation and some travel costs during fieldwork. Wherever practicable these costs are kept to a minimum by camping.

The Department of Geography and Human Ecology is an associate department of the Faculty of Arts and offers

the BA and BA Honours degrees. All undergraduate Geography and Human Ecology units are available to Arts students (subject to prerequisites) and can be used to form an Arts Faculty major.

For the BA degree, a major in geography consists of a prescribed sequence of no less than 42 credit points. This sequence consists of either GEOG1005 followed by five 2000 or 3000 level units; or 2000 and 3000 level units to the value of 42 credit points provided that the 1000 level unit has also been completed. SREM3011 is counted as a Geography unit for the purpose of the Geography major. The major may, with the permission of the Head of Department, include units to the value of not more than 12 credit points from the following units in Human Ecology: ECOS2001, 2002, 2004, 3001, and 3002; Population Studies: POPS2001, 2002, 3001; or Resource and Environmental Management SREM 2005, 2006, 3002, 3004.

A major in human ecology consists of a prescribed sequence of no less than 42 credit points. This sequence consists of 12 credit points selected from GEOG1005, BIOL1001, 1002, 1003, ANTH1011, 1012, PREH1001, 1002 followed by 30 credit points from ECOS 2000 or 3000 level units; or 2000 and 3000 level units to the value of 42 credit points. One of these units must include ECOS2001. The major may include GEOG3014 and a further 6 credit points from a GEOG 2000 or 3000 level unit.

BA students may incorporate Geography and Human Ecology units in the following multi-disciplinary Programs in the Faculty of Arts: Human Sciences, Population Studies, Development Studies, Agroecology and Environmental Resources (see entries in the section on Programs). The Department administers the Human Sciences Program and jointly administers the Population Studies Program. A major in Human Sciences or Population Studies is a valuable complement to a major in Geography.

Students seeking advice on appropriate course structures are invited to consult staff in the Department.

For details of ECOS, POPS and SREM units see:
 ECOS — Human Sciences Program, Faculty of Arts
 POPS — Population Studies Program, Faculty of Arts
 SREM — School of Resource Management and Environmental Science, Faculty of Science

Geography & Human Ecology Stream 2001

	<i>First semester</i>	<i>Second semester</i>	<i>Summer School</i>
<i>Year 1</i>	GEOG1007 Introduction to Global Change	GEOG1008 Australia and its Neighbours: A Region in Change	
<i>Year 2</i>	GEOG2011 Atmosphere, Weather and Climate GEOG2014 Population and Resources GEOG2015 Intro to GIS & Remote Sensing ECOS2001 Human Ecology SREM2005 Australian Soils	GEOG2001 Intro to Landscape Ecology GEOG2013 People and Environment ECOS2002 Agroecology ECOS2004 Urban Ecology SREM2006 Soil Ecology & Management	GEOG2009 Geographic Information and Intelligence
<i>Year 3</i>	GEOG3027 Special Topics in Geography and Human Ecology GEOG3016 Geography of South-East Asia GEOG3017 Readings in Environmental History GEOG3021 Studies in Cities and Policy GEOG3024 Studies in Geography of Development GEOG3022 Studies in Climatic Variability and Change *ECOS3002 Ag & Sust Systems ECOS3003 Studies in Agroecology GEPR3001 Palaeo-Environmental Reconstruction SREM3002 Soil Mapping	GEOG3009 Applied GIS GEOG3010 Environmental Policy and Planning GEOG3011 Landscape Ecology GEOG3027 Special Topics in Geography and Human Ecology GEOG3020 Geographic Research Methods GEOG3019 Northern Australian Field School GEOG3001 Rivers & Catchments GEOG3023 Studies in Environmental Policy and Planning GEOG3021 Studies in Cities and Policy GEOG3022 Studies in Climatic Variability and Change GEOG3025 Studies in Geomorphology GEOG3028 Studies in GIS and Remote Sensing ECOS3001 Sustainable Urban Systems ECOS3015 Studies in Urban Ecology ECOS3003 Studies in Agroecology SREM3004 Land Management & Environmental Geoscience SREM3052 Urban Forestry	
<i>Year 4</i>	Honours in Geography Honours in Human Ecology	Honours in Geography Honours in Human Ecology	

Introduction to Global Change GEOG1007 (6cp) Group A

First semester

GEOG1007 may not be combined in a degree with previously offered Geography first-year units.

Sixty-five hours contact comprising lectures, practicals, and field classes.

Coordinator: Dr Lindesay

Syllabus: We live on a planet of extraordinary complexity. Throughout its history the atmosphere, oceans and land have interacted, producing environmental changes to which life has contributed and adapted. Today, one species of life, humankind, through increasing population and a quest for improved quality of life, has developed the capacity to change our global environment in ways that we are only beginning to perceive, but do not fully understand. 'Global Change' aims to provide an understanding of the complex inter-relationships between people and the environment, with insights into the origin, nature and implications of the dramatic global changes occurring in our biosphere and societies, and how these two aspects of global change are inextricably entwined.

The unit is structured to provide a global-scale, integrated biophysical and social analysis of issues of major contemporary change. The time scale considered is from the development of humankind to the present day. Topics include: the impacts of atmospheric and oceanic circulation on human activities; population growth and its impacts on both the carbon and hydrological cycles; climatic change and its impacts on population move-

ments, early farming systems and the geographical spread of disease; the impacts of humans on vegetation change; the history of agriculture; food and famine; changing human conceptions of nature; 'natural' disasters; colonialism and indigenous responses to it; geographic technology's role in colonialism; urbanisation and the globalisation of capital; and contemporary development issues. Practical introduce the principles underlying GIS, cartographic methods, qualitative methods, data analysis and applications of spatial theory. The global perspective in this unit leads naturally to the examination of regional-scale issues of environmental and social change in GEOG1008: Australia and its Neighbours: a Region in Change.

Proposed assessment: A combination of short test, essay/report and examination.

Recommended texts

□ Aplin, G, et al., *Global Environmental Crises — an Australian Perspective*, Oxford University Press, Melbourne, 1999

□ Bryant, E, *Climate Process and Change*, Cambridge University Press, Cambridge, 1997

Australia and its Neighbours: a Region in Change GEOG1008 (6cp) Group A

Second semester

GEOG1008 may not be combined in a degree with previously offered Geography first-year units.

Sixty-five hours contact comprising lectures, practicals, and field classes.

Coordinator: Dr Baker

Prerequisite: None

Syllabus: As we enter the new millennium, Australia and its neighbours in the region are undergoing dramatic changes both in the physical environment and in human systems. The complex and diverse inter-relationships between the physical and human components of these regional changes are inextricably entwined with the causes and consequences of global change. This unit is designed to provide insights into the origins, nature and implications of change, using an integrated biophysical and social analysis of issues of major contemporary change in the Australasian region. Topics include: land degradation in Australia and responses to this crisis, the El Niño Southern Oscillation and its impacts on Australia, population and development issues in SE Asia and the Pacific, Australia's geopolitical relationships with our SE Asian and Pacific neighbours, indigenous land rights issues in our region, and the impacts of genetically modified organisms on agriculture and society more generally. Practicals will focus on developing an understanding of the complexity of environmental issues and management options for pressing environmental issues. The regional perspective on change in this unit makes it a natural partner to the examination of global-scale issues of environmental and social change in GEOG1007: Introduction to Global Change.

Proposed assessment: A combination of practical participation and preparation, learning portfolio, essay and examination.

Recommended text

□ Aplin, G, et al., *Global Environmental Crises — an Australian Perspective*, Oxford University Press, Melbourne, 1999

Introduction to Landscape Ecology

**GEOG2001
(6cp) Group B**

Second semester

Sixty-five hours contact comprising twenty-six hours of lectures, twenty-four hours of practicals and two days in the field.

Course coordinators: Dr Mackey

Prerequisites: 18 Science Group A credit points

Syllabus: This unit provides an introduction to understanding ecological pattern and process at the landscape scale. Quantitative methods are examined for studying the inter-relationships between the physical environment, plants and animals on a landscape wide basis, and deals with fundamental concepts underlying Landscape Ecology. Investigations of landscape ecosystems are undertaken during a major field trip. These are complemented during the semester by computer-based modelling exercises.

Proposed assessment: This will include technical and field reports, performance in a range of class activities, and an examination. Students who fail to submit work by the due date or fail to participate in classes and field trips may be excluded from examination.

Preliminary reading

□ Burgman, M A and Lindenmayer, D B, *Conservation Biology for the Australian Environment*, Surrey Beatty and Sons Pty Ltd, Chipping Norton, NSW, 1998

Geographic Information and Intelligence

**GEOG2009
(6cp) Group B**

Summer School, February — X1

Sixty-five hours contact comprising thirty-nine hours of lectures and twenty-six hours of practicals spread over four weeks.

Lecturer: Mr Johnson

Prerequisite: 18 first year credit points.

Syllabus: The unit examines ways of creating and communicating information from data using exploratory methodology involving the interpretation of graphical representations of the output of analysis. The properties of intelligence essential for such analysis and graphic interpretation, and visualisation in particular, are explored in the class. Understanding integrated comprehensive analyses of spatial and temporal data commonly encountered in geography and environmental science is developed. The modelling of change over time and in space is a fundamental issue of the course. Interactive information technology systems support learning along with the analysis and graphical representation of data. The skills developed are of great value in other courses and the wider community.

Proposed assessment: To be agreed in consultation with students. This may include an essay, a field report, and an examination. Regular attendance and participation in class work is required. Students who fail to submit set work by the due date or fail to participate in classes and field excursions may be excluded from examination.

Preliminary reading

□ Hay, I, *Communicating in Geography and the Environmental Sciences*, Oxford University Press, 1996

□ The annotated listing of Internet sites on the GEOG 2009 Netsite.

**Atmosphere, Weather and Climate GEOG2011
(6cp) Group B**

First semester

Sixty-five hours contact comprising twenty-six hours of lectures, twenty-four hours of practicals and up to two days in the field.

Lecturer: Dr Lindesay

Prerequisite: 18 Science Group A credit points.

Syllabus: This unit is concerned with developing understanding of the atmospheric components of the Earth system, and the interactions among all parts of the system that influence weather and climate on global, regional and local scales. The unit covers energy in the system; the structure, composition and physics of the atmosphere; atmospheric circulation on macro and meso scales; an introduction to boundary layer climates and air pollution meteorology; weather processes and systems; the climates of the Earth, particularly the southern hemisphere and Australasia; ocean-atmosphere interactions; the nature, causes and impacts of climatic variability and change; and current issues in climatology (including increasing climatic variability, the El Niño Southern Oscillation, the enhanced greenhouse effect and ozone depletion). A primary focus of the course is on the relationship between humans and the atmosphere, particularly in the context of climatic change. Practical work is directed towards understanding atmospheric data collection, processing and interpretation.

Preliminary reading

- Barry, R.G. & Chorley, R.J., *Atmosphere, Weather and Climate*, Routledge, 1992
- Linacre, E. & Geertz, B., *Climates and Weather Explained*, Routledge, 1997
- Also consult Department for further information.

Proposed assessment: To be agreed in consultation with students. This may include an essay, a field report, and an examination. Regular attendance and participation in class work is required. Students who fail to submit set work by the due date or fail to participate in classes and field excursions may be excluded from examination.

People and Environment **GEOG2013**
(6cp) Group B

Second semester

Sixty-five hours contact comprising twenty-six hours of lectures, twenty-four hours of practicals and two days in the field.

Lecturer: Mr Johnson

Prerequisite: 18 first year credit points. Incompatible with GEOG2004

Syllabus: The unit studies human beings and their environment; how we make places, and how we are influenced by the places where we live. The course reviews ideas and theories from the social sciences to develop an understanding of the allocation of space, through studying patterns and processes. Reading the landscape is an integral part of the study. Attention is centered on Australia in its global setting, looking particularly at the complex interconnections of the global economy. De-

bate is generated about the nature and implications of contemporary trends in society. The disparities people experience in different places and times are a central concern. The course addresses problems of different scales of view. Study of the formulation and effect of policy and planning and management systems integrates work in the course. The practical part of the course studies the creation of information from quantitative and qualitative sources as well as field work.

Proposed assessment: To be agreed in consultation with students. This may include an essay, a field report, and an examination. Regular attendance and participation in class work is required. Students who fail to submit set work by the due date or fail to participate in classes and field excursions may be excluded from examination.

Preliminary reading

- Fagan, R H and Webber, M, *Global Restructuring: The Australian Experience*, 2nd edn, Oxford, 1999

Population and Resources **GEOG2014**
(6cp) Group B

First semester

65 hours contact comprising of twenty-six hours of lectures, twenty-four hours of tutorials and two days in the field.

Lecturer: Dr van Diermen

Prerequisite: 18 Group A Science credit points or any Faculty of Arts Population Study major or with the written agreement of the lecturer. Incompatible with GEOG2005.

Syllabus: The concern in this unit is to account for the distribution of the human population and its relation to the resources of the Earth. Particular attention is given to the geographical aspects of the demography of populations and contemporary trends. The development of nations in their particular environments provides perspectives on the relationship between population and resources. Attention is centred on the Australian-Asian hemisphere. The limitations of resources, the role of technology, affluence and social policy are central topics. The methodology for understanding population dynamics support the discussion of issues and problems. The course also studies policy and how it seeks to keep pace with rapid socio-economic change.

Preliminary reading

- Sarre, P and Blunden, J (Eds.), *An Overcrowded World? Population, Resources and the Environment*, United Kingdom: The Open University/Oxford, 1995

Proposed assessment: To be agreed in consultation with students. This may include an essay, a field report, and an examination. Regular attendance and participation in class work is required. Students who fail to submit set work by the due date or fail to participate in

classes and field excursions may be excluded from examination.

Associated Program: Population Studies in Faculty of Arts

Introduction to GIS and Remote Sensing

**GEOG2015
(6cp) Group B**

First semester

Sixty-five hours contact comprising twenty-six hours of lectures, twenty-four hours of practicals and two days in the field.

Lecturer: Dr Lees

Prerequisites: 18 Group A Science credit points

Incompatible with GEOG3009 completed prior to 1999.

Syllabus: There has been a rapid growth in the use of digital spatial data in many areas of resource management and the environmental sciences. This unit aims to develop both a solid theoretical understanding and a comprehensive practical introduction to the use of geographic information systems and remote sensing in the analysis of digital spatial data, simple modelling using digital spatial data and in decision support. The practical exercises take the form of an Environmental Impact Study in a small coastal catchment. On the satisfactory completion of this unit, students will have processed and field checked digital analyses of remotely sensed data, integrated the results into a geographic information system, and completed realistic hydrological, erosion, conservation, wildlife habitat, forest, agriculture, fire and building economic models within the geographic information system. The integration of these components will be carried out using Multi-criteria Evaluation and Multiple Objective Land Use Allocation models within the GIS.

Preliminary reading

- Richards, J.A., *Remote Sensing Digital Image Analysis*, Springer, 1993
- Burrough, P. & McDonnell, R., *Principles of Geographic Information Systems*, Oxford, 1998

Proposed assessment: To be agreed in consultation with students. This may include an essay, a field report, and an examination. Regular attendance and participation in class work is required. Students who fail to submit set work by the due date or fail to participate in classes and field excursions may be excluded from examination.

Rivers and Catchments

**GEOG3001
(6cp) Group C**

Second semester

Sixty-five hours contact comprising twenty-six hours of lectures, twenty-four hours of practicals and two days in the field.

Lecturer: TBA

Prerequisite: 18 Science Group B credit points.

Syllabus: Rivers and catchments cover most of the land surface of the Earth, and are natural entities for natural resource management. The unit is based on a geomorphic understanding of rivers and catchments. Topics include: major theories of Geomorphology; spatial organisation of rivers and hillslopes; responses to tectonic, climatic and land use change; global patterns of sediment transport; catchments as cascading systems; and a geomorphic basis for catchment management. Examples are drawn from Australia, South East Asia, and the Indian Subcontinent. The unit is useful for physical geographers, geologists, catchment managers, archaeologists, and forest managers.

Preliminary reading

- Summerfield, M.A., *Global Geomorphology*, Longman, 1991
- Knighton, D., *Fluvial Forms and Processes, a New Perspective*, Arnold, 1998

Proposed assessment: To be agreed in consultation with students. This may include an essay, a field report, and an examination. Regular attendance and participation in class work is required. Students who fail to submit set work by the due date or fail to participate in classes and field excursions may be excluded from examination.

Applied Geographic Information Systems

**GEOG3009
(6cp) Group C**

Second semester

Sixty-five hours contact comprising twenty-six hours of lectures, twenty-four hours of practicals and two days in the field.

Lecturer: Dr Lees

Prerequisite: 18 Science Group B credit points or GEOG2015.

Syllabus: Geographic Information Systems have improved considerably over the past decade and geography has become very much richer in digital information. The requirement to build complex applications and simulations has become more urgent with the need to plan for a changing climate, to feed an increasing population and to provide pinpoint marketing analysis for business. This unit explores a toolbox of conceptual approaches and methods to model and analyse a range of highly complex, often non-deterministic problems. It provides a true enabling technology for the natural sciences and a rich source of computational and representational challenges for the computer sciences.

Preliminary reading

- Richards, J.A., *Remote Sensing-Digital Analysis*, Springer, 1993

□ Burrough, P.A. & R McDonnell, *Principles of Geographical Information Systems for Land Resources Assessment*, Oxford, 1998

Proposed assessment: To be agreed in consultation with students. This may include an essay, a field report, and an examination. Regular attendance and participation in class work is required. Students who fail to submit set work by the due date or fail to participate in classes and field excursions may be excluded from examination.

Environmental Policy and Planning

**GEOG3010
(6cp) Group C**

Second semester

Sixty-five hours contact comprising lectures, tutorials, a two-hour workshop and a five-day field class

Lecturer: Dr Baker

Prerequisite: At least 96 credit points towards a degree, including 2 later year units in Geography and/or Human Ecology; or the written approval of the Lecturer.

Syllabus: The unit considers environmental policy and planning theory and practice at scales from the local to the global. Field classes and workshops provide students with opportunities to analyse specific environmental planning and policy issues in theoretical frameworks and over different time scales. Case studies explored include Landcare, Total Catchment Management, the Murray-Darling Basin Agreement and the role of indigenous people in environmental policy and planning.

Preliminary reading

- Blaikie, P. & Brookfield, H., *Land degradation and society*, Methuen, 1987
- Conacher, A., and Conacher, J., *Environmental Planning and Management in Australia*, Oxford, 2000.
- Doyle, T. & Kellow, A., *Environmental politics and policy making in Australia*, Macmillan, 1995
- Walker, K.J., *The political economy of environmental policy: an Australian introduction*, New South Wales University Press, 1994
- Walker, K.J., Crowley, K, *Australian Environmental Policy 2 — Studies in Decline and Devolution*, UNSW Press, Australia, 1999

Proposed assessment: Tutorial paper, facilitation of tutorial, learning portfolio and exam.

Landscape Ecology

**GEOG3011
(6cp) Group C**

Second semester

Sixty-five hours contact comprising twenty-six hours of lectures, twenty-four hours of practicals and two days in the field.

Course coordinators: Dr Mackey, Dr Lindenmayer

Prerequisites: 18 Science Group B credit points. Incompatible with SREM3011.

Syllabus: Landscape Ecology is concerned with the analysis and modelling of ecological phenomena on a landscape-wide basis. The advent of GIS, remote sensing and environmental modelling enable ecological process and pattern to be analysed at hitherto unavailable scales. A particular focus of the unit is the role played by the primary environmental regimes in determining the composition, structure and productivity of terrestrial ecological systems. The unit covers theory dealing with ecological hierarchy theory. The concepts of niche and habitat are examined from a landscape perspective. Practicals are based on the application of GIS to various ecological and landscape management issues. These computer-based practicals are complemented by field-based investigations.

Proposed assessment: This will include technical reports, performance in a range of class activities, and an examination. Students who fail to submit work by the due date or fail to participate in classes and field trips may be excluded from examination.

Preliminary reading

- Cox C., Barry and Moore P.D., *Biogeography — an ecological and evolutionary approach*, Blackwell Scientific Publications, Oxford, 1980
- Forman, R.T.T. and Gordon, M., *Landscape Ecology*, Wiley and Sons, New York, 1986
- Turner, M.G. and Gardner, R.H., *Quantitative Methods in Landscape Ecology*, Springer-Verlag, New York, 1992

South-East Asia Field School **GEOG3015 (6cp) Group C**

Four weeks in-country field school

Offered every second year (Mid January 2002 next offered).

Lecturer: Dr van Diermen

Prerequisite: GEOG3016 or GEOG3024 or with the written agreement of the lecturer.

Syllabus: This unit explores the development of South East Asia through an intensive 4-week field school. Students are exposed first hand to the economic, social and environmental conditions in several South-East Asian countries, including Indonesia, Singapore and Thailand. By intensive teaching in the field, visits to projects and institutions and contact with local cultures, students will develop an understanding of development in the region. In addition to the in-country lectures, students are expected during the four weeks to research a topic chosen in consultation with their lecturer.

Note: Because the subject is offered only every second year it can be taken either in second or third year. Prerequisites must be taken in 2001. The cost of the field work will be charged directly to students.

Associated Program: Development Studies in Faculty of Arts.

Preliminary reading

- Taylor, C. et al, *South-East Asia on a Shoestring, Melbourne*, Lonely Planet, 1997.
- Vervoorn, A., *Re-Orient: Change in Asian Societies*, Singapore, Oxford, 1998

Proposed assessment: to be agreed in consultation with the students.

Geography of South-East Asia GEOG3016 (6cp) Group C

First semester

Sixty- five hours contact made up of thirty-nine hours of lectures and twenty- six hours of tutorials.

Lecturer: Dr van Diermen

Prerequisite: At least 48 credit points towards a degree or with the written agreement of the lecturer.

Syllabus: This unit explores the geography of South-East Asia. It is a region of remarkable economic growth and more recently financial turmoil. These developments have associated problems of economic inequity, migration, pollution, ethnic tensions, institutional corruption and political instability. All of these and other issues will be explored within the context of the relationship between cultural, economic, political and environmental factors and processes. The underlying aim of the unit is to explore how far we can explain patterns of human activity in this region, using both spatial and temporal analyses.

Preliminary reading

- Rimmer, P.J., *Pacific Rim Development: Integration and Globalisation in the Asia-Pacific Economy*, Canberra, Allen and Unwin, 1997
- Rodan, G, et al, *The Political Economy of South-East Asia*, Melbourne, Oxford University Press, 1997

Proposed assessment: To be agreed in consultation with students. This may include an essay, a field report, and an examination. Regular attendance and participation in class work is required. Students who fail to submit set work by the due date or fail to participate in classes and field excursions may be excluded from examination.

Associated Program: Development Studies in the Faculty of Arts

Readings in Environmental History GEOG3017 (6cp) Group C

First semester

Weekly seminar, of one hour, during which oral presentation of a critical review and/or major essay will be presented. Students are expected to devote at least eight hours a week to seminars and written work.

Lecturer: Dr Dovers

Prerequisite: Entry requires the written approval of the lecturer.

Syllabus: Environmental History explores the changing relationship between people and their environment through time, taking account of shifts in value systems, knowledge and economic context. This unit will familiarise students with the literature, methods, content and likely future development of this emerging transdisciplinary field. The unit is structured around student readings, reviews and essays, and weekly seminars. Likely seminar topics are: environmental history of Terra Australis; indigenous history; community history, and environmental history; biohistorical perspectives, environmental history and the humanities; environmental history for catchment management; long-term environmental history in East Asia; and reconstructing forests.

Preliminary reading

- Dovers, S, (ed.), *Australian Environmental History*, OUP, Melbourne, 1994

Proposed assessment: To be agreed in consultation with students.

Northern Australian Field School GEOG3019 (6cp) Group C

Four weeks field school

Offered every second year (July 2001 next offered).

Lecturer: Dr Lees

Prerequisite: Entry with the written agreement of the lecturer.

Syllabus: This unit explores the environments of Central and Northern Australia. Students are exposed first hand to the vegetation, landforms, land uses and environmental problems of these two important regions. By intensive teaching in the field, visits to projects and institutions and contact with local people, students will develop an understanding of the important issues facing these regions. In addition to the in-field lectures, students are expected during the four weeks to research a topic chosen in consultation with their lecturer.

Note: Because the subject is offered only every second year it can be taken either in second or third year. The cost of the field work will be charged directly to students.

Preliminary reading: To be advised

Proposed assessment: to be agreed in consultation with the students.

Geographic Research Methods GEOG3020 (3cp) Group C

Second semester

Up to twenty-six hours of seminars and/or tutorials

Lecturer: Mr Johnson

Corequisite: Concurrent enrolment in at least one other GEOG3000-level 3cp unit. Incompatible with GEOG3018

Syllabus: The course studies the issues involved in research, from the conceptualisation of a problem to the communication of knowledge. The course, by working through the steps taken in research on individual projects, establishes sound research practice. Ethical issues are also addressed. The application of analytical methods is discussed in the context of projects being studied by members of the class.

Preliminary reading

□ Hay, Iain, *Communicating in Geography and the Environmental Sciences*, Melbourne: Oxford University Press, 1996

Proposed assessment: To be agreed in consultation with students. This may include tutorial work, research and a 3000-word research report.

Studies in Cities and Policy **GEOG3021**
(3cp) Group C

Available in each semester
Up to twenty-six hours of seminars and/or tutorials

Lecturers: Mr Johnson and Dr van Diermen

Corequisite: Concurrent enrolment in GEOG2013 People and Environment or GEOG2014 Population and Resources.

Syllabus: This unit requires further reading and research in the selected corequisite unit. It can be taken in conjunction with only one of the listed corequisites. The unit offers an opportunity to focus the studies of the two second year units on the Australian city.

Preliminary reading: see GEOG2013 People and Environment and GEOG2014 Population and Resources.

Proposed assessment: To be agreed in consultation with students. This may include tutorial work and a 3000-word essay.

Studies in Climatic Variability and Change **GEOG3022**
(3cp) Group C

Available in each semester
Up to twenty-six hours of seminars and/or tutorials

Lecturer: Dr Lindsay

Corequisite: Concurrent enrolment in any of the following Geography units: GEOG2011 Atmosphere, Weather and Climate, GEOG3013 Climatology or GEOG2009 Geographic Information and Intelligence.

Syllabus: This unit requires further reading and research in the selected corequisite unit. It can be taken in conjunction with only one of the listed corequisites. The unit offers an opportunity to extend the studies of

weather and climate system variability that are the focus of the corequisite units.

Preliminary reading: see GEOG2011 Atmosphere, Weather and Climate, GEOG3013 Climatology or GEOG2009 Geographic Information and Intelligence.

Proposed assessment: To be agreed in consultation with students. This may include tutorial work (including oral presentation), research and a 3000-word research report.

Studies in Environmental Policy and Planning **GEOG3023**
(3cp) Group C

Second semester
Up to twenty-six hours of seminars and/or tutorials

Lecturer: Dr Richard Baker

Corequisite: Concurrent enrolment in GEOG3010 Environmental Policy and Planning

Syllabus: This unit must be taken in conjunction with GEOG3010 and requires further reading and research in the area. The unit offers an opportunity to extend and focus the work on Environmental Policy and Planning that is undertaken in GEOG3010.

Preliminary reading: see GEOG3010 Environmental Policy and Planning

Proposed assessment: To be agreed in consultation with students. This may include extra tutorial work and a 3000-word research essay.

Studies in Geography of Development **GEOG3024**
(3cp) Group C

First semester
Up to twenty-six hours of seminars and/or tutorials

Lecturer: Dr Peter van Diermen

Corequisite: Concurrent enrolment in either of the following Geography units: GEOG3016 Geography of South-East Asia or GEOG3015 South-East Asia Field School

Syllabus: This unit requires further reading and research in the selected corequisite unit. It can be taken in conjunction with only one of the listed corequisite units. The unit offers an opportunity to extend and focus the work on South-East Asia that is undertaken in the corequisite unit. It is also ideally suited as preparation for the South-East Asia Field School.

Preliminary reading: see GEOG3016 Geography of South-East Asia or GEOG3015 South-East Asia Field School.

Proposed assessment: To be agreed in consultation with students. This may include tutorial work and a 3000-word research essay.

Studies in Geomorphology **GEOG3025**
(3cp) Group C

Second semester

Up to twenty-six hours of seminars and/or tutorials

Lecturer: To be advised

Corequisite: Concurrent enrolment in GEOG3001 Rivers and Catchments.

Syllabus: This unit must be taken in conjunction with GEOG3001 and requires further reading and research in the area. The unit offers an opportunity to extend and focus the work on landscape processes that is undertaken in GEOG3001

Preliminary reading: see GEOG3001 Rivers and Catchments.).

Proposed assessment: To be agreed in consultation with students. This may include tutorial work, research and a 3000-word research report.

Studies in GIS and Remote Sensing **GEOG3026**
(3cp) Group C

Second semester

Up to twenty-six hours of seminars and/or tutorials

Lecturer: Dr Lees

Corequisite: Concurrent enrolment in GEOG3009 Applied GIS.

Syllabus: This unit must be taken in conjunction with GEOG3009 and requires further reading and research in the area. It The unit offers an opportunity to extend and focus the work on applied Geographic Information Systems that is undertaken in GEOG3009.

Preliminary reading: see GEOG3009 Applied GIS.

Proposed assessment: tutorial work, research and a 3000-word research report.

Special Topics in Geography and Human Ecology **GEOG3027**
(6cp) Group C

Either semester, subject to the availability of a suitable supervisor.

Coordinator: Dr Baker

Students are expected to devote at least eight hours a week to a research topic.

Prerequisite: The completion of at least 32 credit points at 2000/3000 level. Admission to this unit is at the discretion of the Head of Department and normally will be open to prospective honours students who have obtained a Credit or better in relevant areas of study. Taught individually or in small groups by members of academic staff.

Syllabus: Special programs of study designed to enable students to gain skills in self directed research in geography or resource and environmental management.

Proposed assessment: By arrangement, but likely to include an extended essay or research report and the presentation of a seminar.

Palaeo-Environmental Reconstruction **GEPR3001**
(6cp) Group C

First semester

*Subject to availability of staff

One lecture and one two-hour class throughout semester and attendance at selected seminars. Up to 26 hours additional project work by arrangement. One field day.

Prerequisite: At least 96 credit points in a degree including two later-year units in Biology, Resource and Environmental Management or Archaeology or written approval of the lecturer.

Syllabus: The unit reviews techniques commonly used to provide a reconstruction of the past ecology, climate, and surface processes of a region with an emphasis on the potential resources and constraints that may have affected human populations. Biological techniques to be studied include analyses of pollen, charcoal, wood, seeds, isotopic biochemistry and biogenic silica and a range of geomorphological and chronological methods will also be considered. The contribution of these techniques to particular prehistoric problems such as the role of human activity in environmental change is assessed.

Associated programs: Environmental and Human Histories, Geoecology.

Proposed assessment: To be agreed in consultation with students.

Human Ecology **ECOS2001**
(6cp) Group B

First semester

65 hours of class contact work throughout the semester, including 26 hours of lectures, 12 hours of tutorials, 12 hours of practical sessions, and 15 hours in field classes.

Lecturer: Mr Dumaresq

Prerequisites

(a) two points selected from GEOG1005, 1006, 1007, 1008, SREM1002, 1003, BIOL1001, 1002, 1003, ANTH1002, ANTH1003, PREH1111, 1112, or

(b) approved qualifications in the biological and social sciences, eg a unit of biology with PSYC1001 or a social science or humanities unit.

Syllabus: The unit applies the principles of evolutionary biology and ecosystems analysis to the study of the human environment. The emphasis is on the signifi-

cance and function of natural ecosystems, and how humans have affected these systems over time. The theories covered are exemplified by case studies which include a critical assessment of the human-nature interactions which have occurred over human history, including hunter gatherer societies in Australia, early agricultural societies in the Pacific and Central America, and modern industrial societies in the Asia-Pacific region. Fundamental ecological principles are used in an examination of the problems of, and the policies affecting, resource use associated with farmland, forests, wilderness and urban areas. Field trips are used to allow students to see first hand, the complexity of managing these areas sustainably. This unit lays the foundations for later year units in human ecology.

Preliminary reading

□ McMichael, A. J., *Planetary Overload*, Cambridge 1993

Preliminary Text

□ Odum, E.P., *Ecology: A Bridge Between Science and Society*, Sinauer 1997.

Assessment: This may include an essay, a field report, and an examination. Regular attendance and participation in class work is required. Students who fail to submit set work by the due date or fail to participate in classes and field excursions may be excluded from examination.

Agroecology

ECOS2002 (6cp) Group B

Second semester

65 hours of class contact work throughout the semester, including 22 hours of lectures, 10 hours of tutorials, 15 hours of practical sessions, and 18 hours of field classes.

Lecturer: Mr Dumaresq

Corequisite or Prerequisite: ECOS2001 or SREM2006

Syllabus: The unit focuses on the study of agricultural ecosystems at the farm level. World-wide examples are used; however, investigation is concentrated on Australian farming systems. The persistence of these human managed ecosystems is a central issue. Topics include the ecological processes and problems of different farming strategies, soil conservation and fertility maintenance, agrichemicals and pest and disease management, tillage and herbicides, plant and animal integration on-farm, monocultures versus polycultures, energy use, genetic engineering and organic farming.

Preliminary reading

□ Jordan, C.F., *Working with Nature*, Harwood Academic Publishers, 1998.

Preliminary text

□ Gliessman, S.R., *Agroecology: Ecological Processes in Sustainable Agriculture*, Ann Arbour Press, 1997

Assessment: This will include evaluation of a research project, field and laboratory work and an examination. Regular attendance and participation in class work is required. Students who fail to submit set work by the due date or fail to participate in laboratory classes and field excursions may be excluded from examination.

Urban Ecology

ECOS2004 (6cp) Group B

Second semester

65 contact hours made up of 26 hours of lectures, 22 hours of workshops/tutorials, 16 hours of field work.

Lecturer: To be advised

Prerequisite: ECOS 2001

Syllabus: The unit applies the core human ecology concepts developed in ECOS2001 to the urban environment. The emphasis is on how human activities affect ecological processes and human well being in urban areas. Students will study the effect different policies and urban planning practices have on energy and material flows through the city. Case studies covered by the unit include: urban water management, urban waste management, and urban planning processes affecting transport and settlement patterns. For each of these topics, different human interventions such as regulations, pricing, education and government expenditures will be considered.

Preliminary reading

□ Girardet, H., *The Gaia Atlas of Cities: New directions for sustainable urban living*, London, Gaia Books (revised edition), 1996

□ White, R., *Urban Environmental Management: Environmental change and urban design*, Brisbane, John Wiley and sons, 1994

Assessment: This will include a reflective field trip report, a poster with summary pamphlet, and an exam or essay. Regular attendance and participation in workshops are required. Every student will be expected to take an active role in organising and leading one workshop. Students who fail to submit set work by the due date or fail to participate in workshops/field trips may be excluded from examination.

Sustainable Urban Systems

ECOS3001 (6cp) Group C

Second semester

65 contact hours made up of 26 hours of lectures, 22 hours of workshops/tutorials, 16 hours of field work.

Lecturer: To be advised

Prerequisites: Two ECOS units.

Syllabus: The unit applies the principles of human ecology to the study of the problems of industrial society and their ecological footprints. The emphasis is on the impact and sustainability of large modern conurbations

and their industrial base in light of their ecological dependencies. Consideration is given to how we currently define 'progress' and how this impacts on urban systems around the globe. Means of addressing escalating social inequities and ecological imbalances are considered in relation to ecological economics, industrial ecology and global communication networks and alliances. The unit concludes by considering different visions for a sustainable future which will meet human and ecosystems needs in a globalised world.

Preliminary reading

- Eckersley, R., (ed.), *Measuring Progress: Is life getting better?* Melbourne, CSIRO Publishing, 1998
- Diesendorf, M. and Hamilton, C. (eds.), *Human Ecology, Human Economy* (Part 1), St Leonards, Allen and Unwin, 1997

Assessment: A group project and presentation, an essay, and a final exam. Regular attendance and participation in workshops are required. Students who fail to submit set work by the due date or fail to participate in workshops/field trips may be excluded from examination.

Agriculture and Sustainable Systems

**ECOS3002
(6cp) Group C**

First semester

65 hours of class contact work throughout the semester including 24 hours of lectures, 11 hours of tutorials, 12 hours of practical sessions, and 18 hours of field classes.

Lecturer: Mr Dumaresq

Prerequisites: Two ECOS units

Syllabus: This unit applies the principles and techniques of human ecology to the study of the problems of agricultural systems in the production, transportation, storage, processing and distribution of food and fibre for modern industrial societies. The emphasis is on the impact and sustainability of the industrial food chain outside the farm. Topics will include the environmental impact of, and sustainability indices for, the production, transport, storage and processing of agricultural products; the composition of food; residues in food, fibre and water; supply of off-farm inputs; rural and urban linkages; and the structure of local and international agribusiness. Examples will be drawn from Australia where possible.

Preliminary reading

- Pretty, J.N., *Regenerative Agriculture*, Earthscan, 1995

Assessment: This may include a technical report, an essay or research project, performance in a range of class activities, and an examination.

Studies in Agroecology

**ECOS3003
(3cp) Group C**

Both semesters

Up to twenty-six hours of seminars and/or tutorials

Lecturer: Mr Dumaresq

Corequisite: Concurrent enrolment in ECOS2002 Agroecology or ECOS3002 Agriculture and Sustainable Systems.

Syllabus: This unit requires further reading and research in the selected corequisite unit. It can be taken in conjunction with only one of the listed corequisites. The unit offers an opportunity to extend and focus the work on agroecology that is undertaken in the corequisite unit.

Preliminary reading: see ECOS2002 Agroecology or ECOS3002 Agriculture and Sustainable Systems.

Proposed assessment: To be agreed in consultation with students. This may include tutorial work, research and a 3000-word research report.

Studies in Urban Ecology

**ECOS3015
(3cp) Group C**

Second semester

Up to twenty-six hours of seminars and/or tutorials

Lecturer: To be advised

Corequisite: Concurrent enrolment in ECOS2004 Urban Ecology or ECOS3001 Sustainable Urban Systems.

Syllabus: This unit requires further reading and research in the selected corequisite unit. It can be taken in conjunction with only one of the listed corequisites. The unit offers an opportunity to extend and focus the work on urban ecology that is undertaken in the corequisite unit.

Preliminary reading: see ECOS2004 Urban Ecology or ECOS3001 Sustainable Urban Systems.

Proposed assessment: To be agreed in consultation with students. This may include tutorial work, research and a 3000-word research report.

The degree with Honours

Honours Coordinators: Dr Lindesay, Mr Dumaresq

Entry to the fourth (honours) year is at the discretion of the Head of Department. Faculty requirements for the pass degree must be met. In addition,

(1) Group B and C units to the value of at least 48 credit points. These units, at least 24 credit points of which must be from Group C, should be appropriate to the field of Geography or Human Ecology to be studied in the Honours year, and may include up to two units from a cognate discipline;

(2) Performance in the later year units should be at Credit level or better.

(3) Admission is subject to the availability of an appropriate supervisor.

Admission to Geography IV (Honours) in the Faculty of Arts: see the entry for Geography and Human Ecology in the Faculty of Arts section of this Handbook.

The honours program for each student is arranged to include a combination of reading, formal course work and research for a thesis. Students contemplating honours in Geography and Human Ecology should contact the honours coordinator early in their course. BSc Honours is a full-time degree which normally begins in the first week of February.

Course Outline

The fourth-year honours class meets in the first week of February. Prior consultation with members of staff should take place to determine a potential thesis topic and supervisor(s). A thesis proposal is presented in March.

Honours students in the Department of Geography and Human Ecology are required to allocate 30% of their work in the honours year to course work, and 70% to work directly associated with the thesis. In first semester, course work consists of a seminar in the philosophy and practice of scientific research and a unit oriented to the thesis topic. The latter may be an appropriate 3000-level unit or a reading/essay unit. Coursework must be completed by the end of the first semester. For the course work component of the honours year, a grade of CRS (Course Requirement Satisfied) is required before a student may submit the honours thesis. Failure to complete course work satisfactorily may lead to termination of honours candidature.

Honours students present a thesis progress report at the beginning of the second semester. The honours thesis has a limit of 15,000 words and is due at the end of the first week of November. Expenses incurred in field work and presentation of the thesis are borne by the student.

The final grade for the honours year is determined by an examination panel of academic staff of the Department of Geography and Human Ecology including, at least, the supervisor, the Head of Department, the Honours Convener and one other staff member. The decision is made on the basis of advice given to the panel by two examiners, and by the supervisor. The examination panel may seek additional advice if necessary.

Human Sciences

Convener: Mr Dumaresq, Geography

Introduction

The Human Sciences Program is founded on two beliefs — first, that the search for a relationship between humans and their global environment that will prove sustainable in perpetuity has become a matter of critical urgency, and second, that because of the systemic nature of the problem, information and discoveries provided by means of the reductionist analysis used by specialist disciplines must be balanced by an emphasis on whole systems. Only by using a holistic framework to integrate data and analyses from different academic disciplines and other sources can citizens and policy-makers gain the insights and general understanding of local and global problems that they need and now actively seek.

The Program has two closely related foci, the health and well-being of the environment and the health and well being of people. Each of the core units deals with specific aspects of these interdependent problem areas, draws theoretical ideas and factual information from several disciplines (exposing underlying assumptions) and integrates analyses and conclusions by means of case studies.

Human Sciences' integrative approach complements a wide variety of specialist disciplinary studies in the Faculty of Arts and in other faculties. This approach, as well as the organisation of the undergraduate units, gives considerable rein to the interests of individual students and assists the development of coherence across the range of disciplines within the degree as a whole.

The education provided by Human Sciences is an excellent preparation for a wide number of generalist positions in many fields of employment, including the Commonwealth and State public services, as well as providing a valuable complement to the specialist training of students intending to pursue professional practice.

The pass degree

It is not possible to offer all units every year.

For details of ECOS, GEOG and SCCO core units see: GEOG and ECOS — Geography and Human Ecology, Faculty of Arts
SCCO — Science in Context Program, School of Life Sciences, Faculty of Science

Assessment: The pattern of assessment in all units will be decided in consultation with students.

The major

The major consists of a prescribed sequence of units comprising no fewer than 42 credit points as set out below. Normal prerequisites apply.

(a) Two 1000 level units selected from ANTH1002, ANTH1003, PREH1111 and 1112, GEOG1007 and 1008, BIOL1001, 1002, 1003.

(b) ECOS2001.

(c) A further three 2000 or 3000 level units from Human Sciences core units: ECOS2002, 2004, 3001, 3002, GEOG3014, SCCO2103, 3102.

(d) One unit selected from:

1. A further Human Sciences core unit, or
2. A unit related to human ecology selected from, for example:

COMM3017 Environmental Accountability and Reporting

ECHI2003 Development, Poverty and Famine

FSTY3059 Participatory Resource Management

FSTY3056 Farm Forestry

GEOG2013 People and Environment

GEOG2014 Population and Resources

GEOG3010 Environmental Policy and Planning

LAWS3103 Law and the Environment

POLS2011 Development and Change

POLS2043 Pressure Groups and Political Lobbying

POLS2087 Green Governance

POLS2067 Australian Political Parties

POPS2001 Population and Society

PREH2039 The Origins and Dispersal of Agricultural Populations

PREH2041 Intro to Environmental Archaeology

SOCY2022 Energy, Environment and Society

3. Or a unit related to human well being selected from, for example:

LANG2015 Language and Culture

ANTH2026 Medical Anthropology

PRAN2015 'Race' and Human Genetic Variation

PRAN2019 Nutrition, Disease & the Environment

PRAN2020 Culture, Biology and Population Dynamics

PREH2011 Human Evolution

PSYC2002 Development and Individual Differences

PSYC2007 Biological Basis of Behaviour

PSYC3010 Abnormal Psychology

A major may consist entirely of 2000 and 3000 level units, but if so, it must include at least five core units including ECOS2001 and at least four other core units and the remaining credit points must come from those listed under (d).

Other majors: Particular Human Sciences core units can be counted towards several other program majors: Development Studies, Environmental Studies, and Population Studies.

Up to two of the following: ECOS2001, 2004, 2002, 3001 and 3002 may be included in the Geography major.

(Unit descriptions as approved)

The degree with honours

Intending honours students in Human Sciences who are enrolled in the Faculty of Arts should first read the general statement 'The degree with honours' in the introductory section of the Faculty of Arts entry.

The course for students in the Faculty of Arts extends over four years and normally consists of —

Completion of BA degree requirements to include:

- (a) major in Human Sciences, together with another unit to a value of 6 credit points from among those listed for the major.
- (b) Another major in a cognate area of study. The department or program responsible for that major may require completion of an additional unit to a value of 6 credit points.

Intending honours students in Human Sciences should normally contact the convener of the Human Sciences program no later than the beginning of the third year of the degree. They should plan the third and fourth years of their degree in consultation with the convener of Human Sciences and with the head of the department or program responsible for their cognate major.

Admission to Human Sciences IV(H) is approved by Faculty on the recommendation of the Head of the Department of Geography acting on the advice of the Convener of Human Sciences. The normal requirements for entry are:

- (a) ECOS2001 at Credit level or better, and two Human Sciences core 3000 level units, and
- (b) Two other Human Sciences units or one other Human Sciences unit and one of the optional units listed for the Human Sciences major (see above). At least two of the Human Sciences core units must be passed at Distinction level.
- (c) Later-year units to a value of at least 30 credit points (5 units) from a cognate major.

Admission is possible only if a suitable supervisor is available.

The course for Human Sciences IV(H) will normally consist of —

- (a) Human Sciences Honours and Graduate Seminar, together with an associated reading program and/or course work.
- (b) Course work approved by the cognate department.
- (c) An original investigation, presented in a seminar and as a sub-thesis of approximately 15,000 words, due in the first week of November.

Music

Dr Jonathan Powles, BMus(Hons) *Syd.*, DPhil *Oxon.*
Head of Department of Literature and Materials of Music

Introduction

The School of Music offers study in music through the Faculty of Arts by means of an innovative and flexible curriculum approach that aims to develop students' independent and creative thinking about music, a comprehensive knowledge of the musician's craft, and an understanding of music and of the musical profession as an integral part of world culture. Study emphasises the ability to research, analyse, discuss and critically reflect upon music in a range of different musical, cultural and technological contexts. Students may undertake music units leading to an Arts Major in music, an honours program in musicology, or individual semester units in European music or in music of other cultural traditions. Studies in world musics may also form part of program majors in Aboriginal studies and Art and Material Culture. A unit of study of an instrument/voice or of composition may be undertaken as part of the Arts major, (or as approved non-Arts units), subject to audition and resources.

All students undertaking Music units are strongly encouraged to participate independently in some form of music performance, whether choral, chamber, orchestral, or individual instrumental or vocal study.

Major in Music

In those units leading to an Arts Major, study is integrated around four themes per year over a three-year cycle, rather than through a prescribed syllabus. Within these themes students explore a variety of musical styles, historical periods, repertoire, approaches and concepts, through project-based learning in both critical thought and music language and techniques. These projects involve a choice of topics and activities designed to develop a range of skills and knowledge in music. The units are vertically streamed; students commence learning at a level appropriate to their prior ability and experience in music, and progress through the units in the Major at increasing levels of complexity. Learning is primarily within small flexibly organised groups, and students should be aware that the timetable operates flexibly across 6 week blocks. The Unit Coordinator will guide

students in the choice of project topics and learning groups.

Students must complete six 6 cp semester units (each 6 cps) in *Music Literature, Techniques and Critical Thought* and one additional 6 cp semester unit in music from the list below to complete a major. Students not intending to complete a major may undertake individual 6 cp semester units in *Music Literature, Techniques and Critical Thought*. Students enrolling in these units must have a good reading knowledge of music.

Music in Aboriginal Society and Music in Asian Cultures

Students may undertake these units without prior reading knowledge of music. These typically involve lectures and tutorials but also include a world music ensemble class in which students seek to understand and experience other cultural traditions through participation in a performance laboratory. These units may also contribute towards program majors in Aboriginal Studies and Art and Material Culture as well as within Asian Studies.

Instrumental/Vocal Study and Composition

Students may undertake one unit of instrumental/vocal study *or* composition (in either instrumental/vocal or electroacoustic media) as a designated Arts unit only when they are completing a major in music. These units are 6 cp units taken over the whole year. Other students need to seek permission from the Faculty and the Institute of the Arts to enrol in such units as non-Arts units. Study is subject to resources and audition. Intending students must contact the relevant Head of Department at the School of Music as early as possible (ideally towards the end of the previous semester) to arrange an audition before finalising their enrolment.

The degree with Honours in Music

Students may undertake the Arts degree with Honours in Music (Musicology) or in combination with another Honours School with the approval of the relevant heads of Department. To qualify for Honours in Music, students must complete at least 60 credit points in music which must include at least 12 credit points in *Approaches and Methods of Music Research* and which may include one cognate unit in another relevant discipline

Summary of Units offered in 2001

<i>First semester</i>	<i>Second semester</i>
Music Literature, Techniques and Critical Thought 1–6 Music in Aboriginal Society Introduction to Asian Performing Arts: Performance, Genres and Inter-cultural Translation Instrumental/Vocal Study 1–3 (Annual 6cp unit) Composition Studies 1–3 (Annual 6cp unit) Approaches and Methods in Music Research 1–4	Music Literature, Techniques and Critical Thought 1–6 Music in Asian Cultures Authenticity, Identity and Technology: The Poetics and Politics of Arts as Performance in Asia Instrumental/Vocal Study 1–3 (Annual 6 cp unit) Composition Studies 1–3 (Annual 6cp unit) Approaches and Methods in Music Research 1–4
Music IV (Musicology): Honours	

UNIT DESCRIPTIONS

Music Literature, Techniques and Critical Thought 1–6 **MUSM 1125, 1126, 2130, 2131, 3112, 3113** **(each 6cp)**

First and second semesters, each year
Participation in project activities up to 40 hours per semester.

Coordinator: Deborah Crisp

Prerequisites: Commencing students are expected to have a good reading knowledge of music and must have consulted with the unit coordinator prior to enrolment.

Students may enroll in the first unit in either first or second semester.

Students must achieve a Pass in the preceding level of the unit before commencing the next semester.

Syllabus: Music Literature, Techniques and Critical Thought aims to develop the student's ability to research, analyse, discuss and critically reflect on music, informed by historical and contemporary cultural concepts and a knowledge of specialist musical language.

In considering past and contemporary musical practice, the student is introduced to issues of criticism, analysis, theory, history, interpretation and cross-cultural understanding. The unit will deepen the student's understanding of:

- (a) the historical, social and cultural contexts in which music has developed and is practised
- (b) musical language and techniques.

Emphasis will be placed upon the student's ability to understand and apply knowledge derived from score, sound and a range of other sources

The content of the course is delivered through a range of project activities undertaken within thematic blocks of 6 weeks. At the end of each 6 week block, students receive formal oral and written feedback. The themes are planned as a three year cycle and allow a variety of concepts, approaches, methodologies and skills to be explored across a wide range of literature and material. Each theme must be approached from both theoretical and critical perspectives, with an emphasis on the relationship between style, analysis and criticism. There is the opportunity to study music across cultures and musical styles. Student learning is progressively extended and consolidated in a planned fashion.

Proposed assessment: Project work: normally two major projects in critical studies and two major projects that focus on music language and techniques per semester. The project requirements and criteria will be determined through consultation with the lecturer and may take the form of written work, oral and audio-visual presentations as appropriate to the activity.

The graded semester result will reflect the level of achievement, academic participation and the increasing level of complexity and expertise with which students undertake the project work.

World Musics A **MUSM0069** **(6cp)**

First semester
One lecture and two hours of tutorial/workshop each week.

Not offered in 2001

Lecturers: Dr Wild, Dr Hall, Gary France

Prerequisites: Units to the value of 12 credit points in the Faculty of Arts or Asian Studies, with the permission of the Head of Department.

Note: Students are not required to have a reading knowledge of music but are expected to have a demonstrated interest in music and a willingness to participate in a workshop situation with other music students.

This unit is linked to the units Music in Aboriginal Society (MUSM2088), and Music in Asian Cultures (MUSM2089), which will be offered in alternate years. Students wishing to include these units in relevant program majors should discuss this with the appropriate convener.

Syllabus: A study of music of different world traditions, in both their traditional and contemporary contexts, and an exploration of the fusion of world musics as currently used in contemporary music. This unit aims to introduce students to musical ideas and ideas about music as practised in various cultures. It includes the study of classical, folk and popular musics, classification and use of musical instruments, music in a variety of performance contexts, functions of music in various social contexts, and relationships between music and other arts. This first semester unit includes a theoretical introduction to the principles and practices of the anthropology of music. Different traditions are studied, in modules, through selected repertoire from a wide variety of cultures, including Australian indigenous musics, African/American musics, Eastern Mediterranean and Asian and Pacific cultures. Students also participate in a weekly workshop which develops their inter-cultural understanding through the experience of playing and singing music from oral cultures.

Proposed assessment: One major written assignment, tutorial presentation, and class tests as directed by the lecturer.

Preliminary reading

- ❑ Blacking, J, *How Musical is Man?* Seattle and London, University of Washington, 1973
- ❑ May, E, ed, *Musics of Many Cultures: An Introduction*, Berkeley, Los Angeles, London: University of California, 1980

□ Myers, H, ed., *Ethnomusicology: An Introduction*, The New Grove Handbooks in Music, London: Macmillan, 1992

World Musics B

MUSM0070
(6cp)

Second semester

One lecture and two hours of tutorial/workshop each week

Not offered in 2001

Lecturers: Dr Wild, Dr Hall, Gary France

Prerequisites: Introduction to World Musics A or units to the value of 12 credit points in the Faculty of Arts or Asian Studies, with the permission of the Head of Department.

Note: Students are not required to have a reading knowledge of music but are expected to have a demonstrated interest in music and a willingness to participate in a workshop situation with other music students.

This unit is linked to the units Music in Aboriginal Society (MUSM2088), and Music in Asian Cultures (MUSM2089), which will be offered in alternate years. Students wishing to include these units in relevant program majors should discuss this with the appropriate convener.

Syllabus: A further study of music of different world traditions, in both their traditional and contemporary contexts, and a further exploration of the fusion of world musics as currently used in contemporary music. This unit explores musical ideas, styles and techniques as well as ideas about music as practised in various cultures. The second semester unit focuses on developing understanding through a more detailed analysis of the structures and styles of music of different traditional and contemporary musics, including such aspects as the fundamentals of linear and polyphonic music, rhythmic organisation, vocal and instrumental styles, relevant scales and modes, ornamentation, performance styles. It also considers ethical and musical dimensions of cultural preservation, transformation and fusion. The literature of different traditions is studied, in modules, through selected repertoire from a wide variety of cultures, including Australian indigenous musics, African/American musics, Eastern Mediterranean and Asian and Pacific cultures. Students also participate in a weekly workshop which develops their inter-cultural understanding through the experience of playing and singing music from oral cultures.

Proposed assessment: One major written assignment, tutorial presentation, and class tests as directed by the lecturer.

Preliminary reading

□ Kartomi, M, *On Concepts and Classifications of Musical Instruments*, Chicago: University of Chicago, 1990

□ Nettl, B, *The Study of Ethnomusicology. Twenty-nine Issues and Concepts*, Urbana and Chicago: University of Illinois, 1983

□ Shelemay, K, ed, *Ethnomusicology: History, Definitions, and Scope*, New York and London: Garland, 1992

Music in Aboriginal Society

MUSM2088
(6cp)

First semester

One lecture, one tutorial and World Music Ensemble each week.

Lecturer: Dr Wild

Prerequisite: None.

Syllabus: A study of music in Aboriginal society, in both traditional tribal and contemporary contexts. Although this study of music in its social context will examine some technical aspects of Aboriginal music, the course has a broadly humanistic perspective and may be studied without musical prerequisites. The study will examine the relationship of music to spiritual beliefs, ceremonies, social structures, dance and art, in music of the Aborigines from Central Australia and Arnhem Land, and will examine issues relating to changing contexts in Aboriginal society. Students also participate in a weekly workshop, which develops their intercultural understanding through the experience of playing and singing music from oral cultures.

Proposed assessment: As below, or as agreed at the first meeting. One major written project or its equivalent, of 2,500–3,000 words; tutorial assignments as required by the lecturer.

Preliminary reading

□ Ellis, C, *Aboriginal Music, Education for Living: Cross Cultural Experiences from South Australia*, Uni of Queensland, 1985

□ Breen, M, ed, *Our Place, Our Music*, Aboriginal Studies, 1989

Required and recommended reading and listening as directed by the lecturer

Music in Asian Cultures

MUSM2089
(6cp)

Second semester

One lecture, one tutorial, and World Music Ensemble each week.

Lecturer: Dr Hall

Prerequisites: None.

Syllabus: A study of music in selected Asian cultures. Although this study of music in its social context will examine some technical aspects of Asian music, the course has a broadly humanistic perspective and may be studied without musical prerequisites. The course may include a systematic, historical and ethnographic survey

of principles of ethnomusicology, its prominent writers and their theories. Within a comparative approach to music of different Asian cultures, there will be a focus upon the relationship of music to the religion, dance, literature and rituals of one specific Asian culture. Students also participate in a weekly workshop, which develops their intercultural understanding through the experience of playing and singing music from oral cultures.

Proposed assessment: As below, or as agreed at the first meeting. One major written project or its equivalent, of 2,500–3,000 words; tutorial assignments as required by the lecturer.

Preliminary reading

- Malm, W P, *Music of the Pacific, the Near East and Asia*, Prentice Hall, 1977
- Nettl, B, *Twenty Nine Issues and Concepts in Ethnomusicology*, University of Illinois, 1983
- Required and recommended reading and listening as directed by the lecturer

Introduction to Asian Performing Arts: Performance, Genres and Intercultural Translation

**SEAI3007
(6cp)**

First semester

Up to 39 hours per semester

Coordinator: Amrih Widodo

Prerequisites: One year of tertiary Asian language study or equivalent; or any later-year ITA unit; or any later-year unit from the Faculty of Arts.

Aim: To introduce students to issues in the study of Asian performance and a representative sample of Asian performance genres as well as the cultural aesthetics that inform them.

Syllabus: Case studies and 'experiences' of attending or performing particular genres in the performance laboratory will be discussed and analysed in the context of intercultural translation. This will include issues such as: What is 'performance'? How do we read, understand and experience performances from other cultures? How do we translate performances? What are issues of intercultural performances?

It is planned to include lectures and workshops by visiting artists as well as by lecturers in ITA, FAS and the Faculty of Arts.

The semester will conclude with a public performance by students based on their work in the performance laboratory.

Assessment: To be based on a 60–40% ratio of written and performance components.

Majors: It is envisaged that the unit would contribute to a major in Contemporary Asian Societies, the Asian Literature major and possibly relevant language majors.

Preliminary reading

- Miller, T E. and Williams, S (eds), *The Garland Encyclopedia of World Music: Southeast Asia*, 1998
- Lindsay, J, *Javanese Gamelan: Traditional orchestra in Indonesia*, 1992

Authenticity, Identity and Technology: The Poetics and Politics of Arts as Performance in Asia

**SEAI3008
(6cp)**

Second semester

Up to 39 hours per semester

Coordinator: Amrih Widodo

Prerequisite: Introduction to Asian Performing Arts: Performance, Genres and Intercultural Translation

Aim: To focus on theoretical debates concerning the construction of the performance genres studies in the first semester. Study will focus on four topics: authenticity, identity, polity and technology.

Syllabus: Government policies in choosing and directing the development of certain genres, popularisation and commercialisation of certain genres, and the role of technologies in mediatisation of performing arts will be examined together with debates on authenticity and identity. The unit will examine questions such as: how are our identities relevant to certain genres of performing arts? What is a nation or an ethnic group? In what sense can we 'own' a certain artistic tradition? What do we know of the past and what claims can its performing arts make on our lives?

Weekly participation in performance laboratory sessions will be a feature of the unit leading to an end-of semester public performance.

Assessment: To be based on a 60–40% ratio of written and performance components.

Preliminary reading

- Trilling, L, *Sincerity and authenticity*, 1972
- Sumarsam, *Gamelan: cultural interaction and musical development in central Java*, 1995

Instrumental/Vocal Study 1 **MUSM 1127,
2132, 3114
(6cp)**

Year long — 3 credit points per semester

Offered each year subject to audition and resources

Weekly individual instrumental/vocal tuition, half hour per week over 26 weeks.

Coordinator: David Nuttall

Prerequisites: Students must have already attained a high level of proficiency prior to enrolment. Admission will be by audition, and students are advised to contact the relevant Head of Department towards the end of the semester prior to anticipated enrolment. Academic progress to the next year level is not automatic and is dependent upon both a pass in the unit and continued availability of teaching resources. Although this unit cannot count towards a music major in first year, students intending to pursue a music major are encouraged to take the unit as an elective.

Syllabus: Study of an instrument/voice is undertaken through individual tuition. The study encourages the development of technical and musical proficiency as well as allowing exploration of a diverse range of repertoire. This course of study is sequenced according to individual ability and discipline-specific demands. Participation in a range of ensemble activities is not mandatory or assessed but is possible depending on student's level of ability.

Assessment: A graded result will be given at the end of the year on the basis of a departmental examination. The assessment requirements and criteria for evaluation vary according to the demands of the instrumental discipline and will be defined in guidelines distributed to students at the beginning of the year.

**Composition Studies 1–3 MUSM 1128,
2133, 3114
(6cp)**

Year long — 3 credit points per semester
Offered each year subject to audition and resources
Small group classes up to 26 hours per semester

Coordinator: Professor Larry Sitsky

Prerequisites: Admission will be by audition, interview and folio of work. Students are advised to contact the Head of Department at least 2 weeks before the anticipated enrolment. Academic progress to the next year level is not automatic and is dependent upon both a pass in the unit and on the continued availability of teaching resources. Although this unit cannot count towards a music major in first year, students intending to pursue a music major are encouraged to take the unit as an elective.

Syllabus: Composition Studies aim to provide the student with an understanding of either the theories and practices of instrumental and vocal writing in the twentieth century or the fundamentals of electroacoustic composition.

The development of the student's creativity and technical knowledge will be encouraged in:

Either

Musical composition, analysis, instrumentation and orchestration in a range of instrumental and vocal styles, genres, approaches and idioms. The student's grasp of

compositional foundations is developed systematically through analysing works of increasing complexity and dimensions and applying this knowledge to their own compositional endeavours.

Or

Musical composition in an electroacoustic medium. This introduces the student to the range of digital/analog technologies available for sound and image manipulation and generation of musical data in studio and real-time environments.

Assessment: Presentation of a folio of musical works, either in score or digital medium. A program of study and the folio requirements will be defined at the beginning of each year in consultation with the student. At the end of each year, a graded result will be based on the student's level of achievement in a folio of works and their academic participation and progress, reflecting at each year level the student's capacity and level of expertise to undertake increasingly complex creative and technical tasks.

**Approaches and Methods in
Music Research 1–4 MUSM 1129, 1130,
2134, 2135
(each 6cp)**

First and second semesters, each year
Participation in a weekly musicology seminar, requiring a progressively extended depth of study and level of achievement each semester. Up to 26 hours per semester.

Availability subject to quota

Coordinator: Robyn Holmes

Prerequisites: Students are expected to achieve at least a Credit standard in Music Literature, Techniques and Critical Thought 1 and 2. Students must achieve a Pass in the preceding level of the unit before commencing the next semester.

Syllabus: This unit aims to develop the student's ability to research and explore scholarly ideas in music, examining music as cultural and aesthetic practice in historical, contemporary and cross-cultural contexts through a range of approaches and methods.

It introduces the student to the materials, critical, historical and oral sources, conceptual approaches and disciplines of music research and scholarship. It deepens the student's understanding of the historical, social and cultural contexts in which music has developed and is practised. The student is challenged to address issues, practices and methods relating to criticism, style and analysis, artistic interpretation, history, bibliography, biography, archival research, cultural theory, field work and cross-cultural knowledge. The student will develop the vocabulary and tools for speaking and writing critically about the rich traditions of music of many cul-

tures, and learn to use, synthesise and evaluate primary sources, with an emphasis upon Australian resources.

Assessment: The requirements and criteria will be determined through consultation with the lecturer and will take the form of seminar papers, written work and other presentations as relevant to the practice and applications of musicology, (eg. criticism, editing, arts management, broadcasting, journalism, collections and collection management, field work and oral history). The graded semester result will reflect the level of achievement, academic participation and increasing level of complexity, understanding and expertise with which students undertake the work.

Musicology IV: Honours MUSM4101

To be admitted to Musicology IV Honours, the student must complete 60 points in music with at least a credit average, consisting of the Departmental major (42 credit points) and a minimum of two units in Approaches and Methods in Music Research (12 credit points) and a further 6 credit point unit. With the permission of the Head of Department students may include one cognate unit (eg. a language, anthropology, philosophy, art) within their 60 credit points.

Students wishing to combine study of music with another discipline should consult both relevant Heads of Department regarding prerequisites, and the combined program of study, and Honours thesis.

The Honours year consists of an individually approved program of study. This would normally consist of presentation of seminar papers within the Musicology seminar program, participation in project activities in the cross-curriculum thematic blocks, and an Honours level thesis of approximately 12,000 words.

Through various types of project work and presentations, commensurate with Honours level, students must demonstrate a comprehensive understanding of the range of approaches and research methods in musicology and a critical knowledge of the sources and literature of music and musicology.

Students must undertake at least one archival project or field work in Australian music, using collections such as the National Library of Australia, ScreenSound Australia, the Australian Institute of Aboriginal and Torres Strait Islander Studies, and other national collecting institutions. Students must also demonstrate an understanding of music across cultures.

Spanish

ANU students who wish to study Spanish as part of their degree can do it through the University of Canberra as cross-institutional studies. Bachelor of Arts or Arts Combined Degree students can incorporate Spanish in their studies as an Arts major or as single unit/s.

The primary goal of the Spanish major is to develop proficiency in students' communication skills so they can function linguistically in a natural, spontaneous and efficient way in a Spanish-speaking environment. It also gives students the opportunity to become familiar with the main social, political, economic and cultural issues of Latin American and Spanish society. The achievement of this general goal is directly related to the use of a communicative methodology in the teaching of all units in the course.

The major is intended for learners of Spanish as a foreign language, no previous knowledge is required. New students who already have some knowledge of Spanish, for example from high school and summer courses or overseas exchange programs, are asked to see the Lecturer in Charge before enrolling to determine the level at which they should enter.

University of Canberra — unit codes and unit names:

<i>Major</i>		<i>ANU cp</i>	
4874	Spanish 1A: Language and Culture	1st year	6cp
4875	Spanish 1B: Language and Culture	1st year	6cp
4876	Spanish Language 2 (annual unit)	2nd year	16cp
4877	Spanish Language 3 (annual unit)	3rd year	16cp

Other combinations are possible, particularly for students with previous knowledge. Students can complete a Major in Spanish by doing Advanced Spanish A and Advanced Spanish B, and/or Special Studies in Modern Languages A and Special Studies in Modern Languages B. These units are worth 8cps each.

Note: SPANISH 1A and SPANISH 1B (1st year) are currently being taught at ANU (Language laboratories, Baldessin and Precinct Bldg.) Subject to sufficient numbers, Spanish Language 2 might be taught as well on the ANU campus. The teaching of the rest of the units is being conducted at the University of Canberra from 4:30 pm onwards.

ANU students who wish to do studies in Spanish have to:

1. Obtain a letter of permission to become a cross-institutional student from the Faculty of Arts office or the Faculty in which the student is enrolled.
2. Fill out an Admission Form (Cross-Institutional Studies) for the University of Canberra and leave it with the Faculty of Arts during Registration Week. Outside this week students are asked to bring this Admission Form with the above letter of permission to the Student

Administration of The University of Canberra or to Oscar Florez, Lecturer in Charge, Bldg. 20 Office C39.

An ANU student enrolled at the University of Canberra as a Cross-institutional student is entitled to a refund of half of the Amenities and Services Fees in both institutions. For further information, contact Oscar Florez at the University of Canberra. Ph. 62012074 — 62012334

Cognate Program Economic History

H M Boot, BSc(Econ) *London*, PhD *Hull*
Head of Department

Economic History units may be studied in the Faculty of Economics and Commerce, and as part of an Arts degree. Arts students wishing to take honours in economic history should consult the department. For details of later year units refer to the entry for Economic History in the section of the handbook on the Faculty of Economics and Commerce.

The department offers two first-year units, Understanding Economic Behaviour: Microeconomics for Social Scientists and Understanding Economic Policy: Macroeconomics for Social Scientists, which are not offered to students in the Faculty of Economics and Commerce; they are designed especially for non-economics students, and emphasise the usefulness of an understanding of economics in such disciplines as history, political science and sociology. Most later year units in Economic History require either Economics I or Understanding Economic Behaviour and Understanding Economic Policy as a prerequisite, therefore BA students taking a major in Economic History should normally take Understanding Economic Behaviour and Understanding Economic Policy as the first units of the major. The other first-year units offered are 'Australian Economy' and 'Business and Economy in the Asia-Pacific Region'. Both run for one semester but are not normally prerequisites for later-year Economic History units.

Understanding Economic Behaviour: Microeconomics for Social Scientists and Understanding Economic Policy: Macroeconomics for Social Scientists are the only Economic History units which count as Arts units. These first-year units may be taken alone, as part of an Economic History major, or as part of a number of program majors.

Understanding Economic Behaviour: Microeconomics for Social Scientists ECHI1105 (6cp)

First semester

Two lectures and one tutorial a week.

Lecturers: Dr Boot and Dr Martina

Prerequisite: None

Syllabus: Understanding Economic Behaviour is a unit designed to introduce the principles and applications of microeconomic thinking to students in the social sciences, including political science, history and sociology. The unit focuses on the concepts of economics and requires no background in mathematics. Its aim is to show how those concepts of economics may be employed to assist social scientists to think more coherently and consistently about a wide range of social

problems. Emphasis will be placed on the application of the economic way of thinking to contemporary social issues. It is hoped that students who complete the unit will be better equipped to tackle not only questions that are primarily economic, but also questions in other disciplines where a knowledge of the basic tools of economics is most useful.

Preliminary reading

□ Heyne, Paul, *The Economic Way of Thinking*, Prentice Hall, 9th ed. 2000

Proposed assessment: By examination, essay and tutorial participation.

Understanding Economic Policy: Macroeconomics for Social Scientists ECHI1106 (6cp)

Second semester

Two lectures and one tutorial a week.

Lecturers: Mr Cornish and Dr Martina

Prerequisite: None

Syllabus: Understanding Economic Policy aims to introduce students to the macroeconomic relationships of a modern capitalist economy. The course is designed for social scientists and requires no background in mathematics. This course is divided into two parts. Eighteen lectures are devoted to an introduction to macroeconomic theory and policy. Here the focus is on the economy as a whole. Topics include the concept of GDP, unemployment, inflation, economic growth, the business cycle, the exchange rate, the balance of payments, and monetary and fiscal policy. Some attention will also be given to competing systems of ideas, such as Keynesianism and Monetarism. The final eight lectures will provide an introduction to the history of economic thought. Here the ideas of the main contributors to economic thought will be reviewed, including Adam Smith, Thomas Robert Malthus, David Ricardo, Karl Marx, William Stanley Jevons, Alfred Marshall, John Maynard Keynes, Friedrich Hayek, Milton Friedman and Joseph Schumpeter.

Preliminary reading

□ Heyne, Paul, *The Economic Way of Thinking*, Prentice Hall, 9th edn 2000

Proposed assessment: By examination, essay and tutorial participation.

Science Cognate Units

Students may use up to 24 credit points from the list below of Science Cognates towards satisfaction of the 96 Arts credit points required in the BA including Combined Courses. Not all units are offered each year. See the Science Faculty chapter for availability year by year.

BIOL1003 Evolution, Ecology and Heredity
BIOL1004 Cellular and Molecular Biology
BIOL1005 Zoology
BIOL1006 Plant Evolution and Ecology
BIOL1007 Living Cells
BIOL1008 Human Biology
BIOL2111 Australian Wildlife
BIOL2151 Introductory Genetics
BIOL2152 Advances in Human Genetics
BIOL3131 Evolutionary and Behavioural Ecology
BIOL3133 Evolution
BIOL3134 Biodiversity and Systematics
BIOL3142 Parasitology
PSYC1001 Introduction to Psychology
PSYC2001 Social Psychology
PSYC2002 Developmental Psychology
PSYC2004 Personality Psychology
PSYC2007 Biological Basis of Behaviour
PSYC2008 Cognitive Processes
PSCY3012 Abnormal Psychology
SCCO2103 Ecology of Health and Disease
SCCO3102 Biotechnology in Context
SCOM1001 Science and Public Awareness
SCOM2001 Scientific Communication