



The University of Southern Queensland

## Course specification

<b>Description: Sustainable Resource Use</b>						
Subject	Cat-nbr	Class	Term	Mode	Units	Campus
REN	3302	44289	2, 2005	ONC	1.00	Toowoomba

<b>Academic group:</b>	FOSCI
<b>Academic org:</b>	FOS002
<b>Student contribution band:</b>	2
<b>ASCED code:</b>	050999

### STAFFING

Examiner: Andrew Le Brocque

Moderator: Charlie Zammit

### REQUISITES

Pre-requisite: BIO2208 or REN2202 or REN3302

### RATIONALE

Present and future Australian decision-makers require an understanding of the principles of Ecologically Sustainable Development. Students in all major subjects will benefit from an appreciation of the environmental impact of current land and resource uses. As options for sustainable land and resource uses become more constrained, the need for integrated catchment and regional resource planning, becomes more urgent and more crucial to Australia's future.

### SYNOPSIS

This course is offered in even years only. The course is based on an explanation of ecological principles as a basis for managing Australia's land and water resources sustainability. The effects of economic growth and traditional management approaches on land use for agriculture, mining, forestry, protected areas, water catchments and urban expansion are analysed and explained. Environmental impacts are studied and compared economically, ecologically and socially. Current approaches to land and resource use planning and resource use are evaluated in terms of their contribution to a sustainable Australian society.

### OBJECTIVES

On successful completion of this course students will be able to:

1. demonstrate an understanding of ecosystem structure and function as a basis of land use planning;
2. demonstrate an appreciation of the potential and limitations of Australian land resources;
3. recognise the relative advantages and disadvantages of agriculture, mining, forestry, conservation reserves and other alternate land uses;

4. demonstrate an understanding of and be able to apply the principles of ecologically sustainable development;
5. demonstrate a significant contribution to an understanding of sustainable resource use issues through group tutorial sessions;
6. integrate knowledge of development and conservation into their major study.

## TOPICS

	Description	Weighting (%)
1.	Ecological Principles	8.00
2.	The Australian Environment & Biota	15.00
3.	Human Impacts and Land Use in Early Australia	8.00
4.	Ecologically Sustainable Development	8.00
5.	Major Land Issues in Australia	46.00
6.	Future Perspectives	15.00

## TEXT and MATERIALS required to be PURCHASED or ACCESSED

ALL textbooks and materials are available for purchase from USQ BOOKSHOP (unless otherwise stated). Orders may be placed via secure internet, free fax 1800642453, phone 07 46312742 (within Australia), or mail. Overseas students should fax +61 7 46311743, or phone +61 7 46312742. For costs, further details, and internet ordering, use the 'Textbook Search' facility at <http://bookshop.usq.edu.au> click 'Semester', then enter your 'Course Code' (no spaces).

Aplin, G 2002, *Australians and their Environment: An Introduction to Environmental Studies*, 2nd edn, Oxford University Press, South Melbourne.

## REFERENCE MATERIALS

Reference materials are materials that, if accessed by students, may improve their knowledge and understanding of the material in the course and enrich their learning experience.

VIDEOS: Biodiversity, 1995, London TV Service, London Biological Seatbelts, 1997, Video Education Australasia, Bendigo, Vic. Systems Energy and Matter, 1999, AGC/United Learning, Evanston, Ill Succession & Climax Communities, 2000, Marcom Projects, Evanston, Ill Water Through the Ecosystem, 1999, AGC/Unitd Learning, Evanston, Ill Interactions and Relationships Among Organisms, 2000, Marcom Projects, Evanston, Ill

Caro, T (Ed) 1998, *Behavioural ecology and conservation biology*, Oxford University Press, New York.

Chapman, J & Roberts, MBV 1997, *Biodiversity: the abundance of life*, Cambridge University Press, Cambridge.

Cocks, D 1992, *Use With Care: Managing Australia's Natural Resources in the 21st Century*, University of NSW Press, Sydney.

Flannery, T 1997, *The Future Eaters*, Reed Books, Sydney.

Jeffries, MJ 1997, *Biodiversity and Conservation*, Routledge, London.

Mercer, D 2000, *A Question of Balance: natural resources and conflict issues in Australia*, 3rd edn, Federation Press, Sydney.

Roberts, BR 1995, *The Quest for Sustainable Agriculture and Land Use*, University of NSW Press, Sydney.

State of the Environment Advisory Council 1996, *State of the Environment: Australia 1996*, CSIRO Publishing, Melbourne.

Urbanska, KM, Webb, NR & Edwards, PJ 1997, *Restoration Ecology & Sustainable Development*, Cambridge University Press, Cambridge.

Yencken, D and Wilkinson, D 2000, *Resetting the Compass: Australia's Journey Towards Sustainability*, CSIRO, Collingwood.

## STUDENT WORKLOAD REQUIREMENTS

ACTIVITY	HOURS
Examinations	3.00
Lectures	26.00
Private Study	87.00
Report Writing	33.00
Tutorials	23.00

## ASSESSMENT DETAILS

Description	Marks out of	Wtg(%)	Due date
ASSIGNMENT	20.00	20.00	19 Jul 2005 (see note 1)
PROJECT	25.00	25.00	19 Jul 2005 (see note 2)
3HR CLOSED EXAM	55.00	55.00	END S2 (see note 3)

### NOTES

1. Examiner to advise due date for Assignment.
2. Examiner to advise due date for Project
3. Examination dates will be available during the Semester. Please refer to the examination timetable when published.

## IMPORTANT ASSESSMENT INFORMATION

- 1 Attendance requirements:  
It is the students' responsibility to attend and participate appropriately in all activities (such as lectures, tutorials, laboratories and practical work) scheduled for them, and to study all material provided to them or required to be accessed by them to maximise their chance of meeting the objectives of the course and to be informed of course-related activities and administration.
- 2 Requirements for students to complete each assessment item satisfactorily:  
To complete each of the assessment items satisfactorily, students must obtain at least 50% of the marks available for each assessment item. To complete the examination

satisfactorily, students must obtain at least 50% of the marks available for the examination.

- 3 Penalties for late submission of required work:  
If students submit assignments after the due date without prior approval then a penalty of up to 20% of the total marks gained by the student for the assignment will apply for each working day late.
- 4 Requirements for student to be awarded a passing grade in the course:  
To be assured of a passing grade, students must demonstrate, via the summative assessment items, that they have achieved the required minimum standards in relation to the objectives of the course by: (i) satisfactorily completing the examination and assignments; and (ii) obtaining at least 50% of the total weighted marks available for all summative assessment items.
- 5 Method used to combine assessment results to attain final grade:  
The final grades for students will be assigned on the basis of the weighted aggregate of the marks obtained for each of the summative assessment items in the course.
- 6 Examination information:  
In a Closed Examination, candidates are allowed to bring only writing and drawing instruments into the examination.
- 7 Examination period when Deferred/Supplementary examinations will be held:  
Any Deferred or Supplementary examinations for this course will normally be held during the examination period at the end of the semester of the next offering of this course, although at the discretion of the examiner, in consultation with the student(s) an alternative date may be arranged.
- 8 University Regulations:  
Students should read USQ Regulations 5.1 Definitions, 5.6. Assessment, and 5.10 Academic Misconduct for further information and to avoid actions which might contravene University Regulations. These regulations can be found at the URL <http://www.usq.edu.au/corporateservices/calendar/part5.htm> or in the current USQ Handbook.

## **ASSESSMENT NOTES**

- 9 The due date for an assignment is the date by which a student must despatch the assignment to the USQ. The onus is on the student to provide proof of the despatch date, if requested by the Examiner. Students must retain a copy of each item submitted for assessment. If requested by the Examiner, students will be required to provide a copy of assignments submitted for assessment purposes. Such copies should be despatched to USQ within 24 hours of receipt of a request being made. The examiner of a course may grant an extension of the due date of an assignment in extenuating circumstances.
- 10 A Course Assignment Cover Sheet, signed by the student must be attached to all submitted assignments. Failure to do so may result in the assignment not being graded.
- 11 Students who obtain an overall passing mark, but who do not perform satisfactorily in one assessment item, may, at the discretion of the examiner, be granted a supplementary assessment. Students will be granted a deferred examination only if they perform satisfactorily in all other assessment items.