



The University of Southern Queensland

## Course specification

The current and official versions of the course specifications are available on the web at <http://www.usq.edu.au/coursespecification/current>.  
Please consult the web for updates that may occur during the year.

### Description: Tools and Techniques for Sustainable Development

Subject	Cat-nbr	Term	Mode	Units	Campus
ECO	8012	2, 2010	WEB	1	Toowoomba

<b>Academic group:</b>	FOBUS
<b>Academic org:</b>	FOB008
<b>Student contribution band:</b>	3A
<b>ASCED code:</b>	089999

### STAFFING

Examiner: Ian Eddington  
Moderator: Geoff Cockfield

### OTHER REQUISITES

Students are required to have access to a personal computer, e-mail capabilities and Internet access to UConnect. Current details of computer requirements can be found at <http://www.usq.edu.au/ict/students/standards/default.htm>.

### RATIONALE

The green agenda is now firmly established as a political agenda and some four decades after Schumacher, industries and governments alike, both national and international, are learning how to conduct their affairs through a full cost accounting approach to the use of non renewable resources. Despite short-term reversals international standards and trade protocols are emerging and these respectively attempt to promote sustainable development and prevent pollution, and the export and/or reimport of pollution and unsafe or polluted products. Environmentally friendly products and processes are increasingly, competitive edge products. Green investment portfolios are increasingly attractive to investors who 1. see environmental liability risk as detracting from future dividend payments and 2. who wish to purposefully contribute to greater environmental sensitivity in industry. Due diligence legislation is driving a new level of accountability and business behaviour. The environmental industry is coming of age and sustainable business, to be effective, needs managers appraised of, and proficient in, green tools and techniques. This subject aims to introduce tools and techniques which will help managers capture corporate benefits.

### SYNOPSIS

This subject introduces managers to tools and techniques (both general and specific) that may be used in best practice environmental management and sustainable development. Topics covered may include environmental impact assessment, environmental auditing, environmental reporting and investor and public relations, management performance tracking and measuring systems. Other areas covered include life cycle analysis and product stewardship, full cost accounting, internal auditing and clean technology financing, process tools pollution prevention and waste

minimisation programs, standards and standardisation, voluntary self regulation and beyond compliance, disclosure policy, measuring performance, ISO 14000, entering international markets and capitalising on clean energy markets. Formerly MGT8012.

## OBJECTIVES

On successful completion of this course, students should be able to:

1. be cognisant of various tools and techniques emerging to help managers in the stewardship of sustainable development
2. be appraised, through case study, of successful business enterprise based on tools and techniques of the kind mentioned in 1 above
3. better understand the stewardship ethic and the sophisticated and expanding environmental business that it is driving
4. be competent in the use of some of these tools and techniques.

## TOPICS

	Description	Weighting (%)
1.	Introduction	2.00
2.	Tools and techniques for holistic and integrative green management, business strategy and performance design for the environment; environmental risk management; integrated sustainable performance; sustainable performance	32.00
3.	Public policy tools: environmental impact assessment and benefit-cost analysis	32.00
4.	Private policy tools: financial tools; process tools; product tools; procurement tools; measuring tools; other tools	32.00
5.	Conclusion	2.00

## 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).

Fiksel, JR2009, *Design for environment: a guide to sustainable product development*, 2nd edn, McGraw Hill, New York.

## 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.

## STUDENT WORKLOAD REQUIREMENTS

ACTIVITY	HOURS
Directed Study	80.00
Private Study	85.00

## ASSESSMENT DETAILS

Description	Marks out of	Wtg (%)	Due date	Objectives assessed	Graduate skill	Level assessed
ASSIGNMENT 1	20	20	13 Aug 2010	All	U1, U2, U3, U4, U8, U9, U10	3, 3, 3, 3, 3, 3, 3
ASSIGNMENT 2	40	40	24 Sep 2010	All	U1, U2, U3, U4, U8, U9, U10	3, 3, 3, 3, 3, 3, 3
2-HOUR EXAMINATION	40	40	END S2 (see note 1)	All	U1, U2, U3, U4, U8, U9, U10	3, 3, 3, 3, 3, 3, 3

### NOTES

1. The examination is scheduled to be held in the end-of-semester examination period. Students will be advised of the official examination date after the timetable has been finalised.

## GRADUATE QUALITIES AND SKILLS

Elements of the following USQ Graduate Skills are associated with the successful completion of this course.

Ethical Research & Enquiry (Skill U1)	Advanced (Level 3 )
Sustainable Practice (Skill U10)	Advanced (Level 3 )
Problem Solving (Skill U2)	Advanced (Level 3 )
Academic, professional and digital literacy (Skill U3)	Advanced (Level 3 )
Written & Oral Communication (Skill U4)	Advanced (Level 3 )
Managmt, Planning & Org Skills (Skill U8)	Advanced (Level 3 )
Creatvty, Initiative & Entrprse (Skill U9)	Advanced (Level 3 )

## IMPORTANT ASSESSMENT INFORMATION

- 1 Attendance requirements:  
There are no attendance requirements for this course. However, it is the students' responsibility 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 satisfactorily complete an individual assessment item a student must achieve at least 50% of the marks. (Depending upon the requirements in Statement 4 below, students may not have to satisfactorily complete each assessment item to receive a passing grade in this course.)
- 3 Penalties for late submission of required work:  
Students must attach an application for late submission to any assignment sent to the university after the due date.
- 4 Requirements for student to be awarded a passing grade in the course:  
To be assured of receiving a passing grade a student must achieve at least 50% of the total weighted marks available for the course.
- 5 Method used to combine assessment results to attain final grade:  
The final grades for students will be assigned on the basis of the aggregate of the weighted marks obtained for each of the summative assessment items in the course.
- 6 Examination information:  
This is a restricted examination. Candidates are allowed access to specific materials during the examination. The only materials that candidates may use in this examination are calculators which cannot hold textual information (students must indicate on their examination paper the make and model of any calculator(s) they use during the examination).
- 7 Examination period when Deferred/Supplementary examinations will be held:  
Any Deferred or Supplementary examinations for this course will be held during the next examination period.
- 8 University Student Policies:  
Students should read the USQ policies Definitions, Assessment and Student Academic Misconduct to avoid actions which might contravene University policies and practices. These policies can be found at the URL  
[http://policy.usq.edu.au/portal/custom/search/category/usq\\_document\\_policy\\_type/Student.1.html](http://policy.usq.edu.au/portal/custom/search/category/usq_document_policy_type/Student.1.html).

## ASSESSMENT NOTES

- 1 Assignments: (i) 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. (ii) Students must retain a copy of each assignment submitted for assessment. This must be produced within 24 hours if required by the examiner. (iii) In accordance with university policy, the examiner may grant an extension of the due date of an assignment in extenuating circumstances. (iv) In the event that a due date for an assignment falls on a local public holiday in their area, such as a show holiday, the due date for the assignment will be the next day. Students are to note on the assignment cover the date of the public holiday for the examiner's convenience.
- 2 Referencing in assignments: Harvard (AGPS) is the referencing system required in this course. Students should use Harvard (AGPS) style in their assignments to format details

of the information sources they have cited in their work. The Harvard (AGPS) style to be used is defined by the USQ Library's referencing guide at <<http://www.usq.edu.au/library/help/referencing/default.htm>>.

- 3 Deferred work: Students who, for medical, family/personal, or employment-related reasons, are unable to complete an assignment at the scheduled time may apply to defer an assessment in a course. Such a request must be accompanied by appropriate supporting documentation. A temporary grade of IDM (Incomplete Deferred Make-up) may be granted.
- 4 Make-up work: Students who have undertaken all of the required assessments in a course but who have failed to meet some of the specified objectives of a course within the normally prescribed time may be awarded the temporary grade: IM (Incomplete - Make up). An IM grade will only be awarded when, in the opinion of the examiner, a student will be able to achieve the remaining objectives of the course after a period of non directed personal study.

### **OTHER REQUIREMENTS**

- 1 Computer, e-mail and Internet access: Students are required to have access to a personal computer, e-mail capabilities and Internet access to UConnect. Current details of computer requirements can be found at <<http://www.usq.edu.au/ict/students/standards/default.htm>>.
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