ENV 300
Environmental Decision Making
S1 Day 2015
Department of Geography and Planning

Contents

General Information ........................................ 2
Learning Outcomes ......................................... 3
Assessment Tasks ........................................... 3
Delivery and Resources .................................... 7
Unit Schedule ............................................... 16
Policies and Procedures ................................... 17
Graduate Capabilities ..................................... 18

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## General Information

**Unit convenor and teaching staff**

**Unit Convenor**
Greg Walkerden
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Contact via greg.walkerden@mq.edu.au
W3A430
By appointment

**Tutor**
Kate McCauley
*kate.mccauley@mq.edu.au*
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W3A429
By appointment

**Tutor**
Rabiul Islam
*rabiul.islam@mq.edu.au*
Contact via By email
W3A429
By appointment

**Credit points**
3

**Prerequisites**
39cp including (ENV267(P) or GEOS265(P) or GEOS267(P))

**Corequisites**

**Co-badged status**

**Unit description**
This unit analyses the societal context in which decisions on environmental issues are made, and scientific and technological knowledge applied. Students are required to gain an appreciation of the importance of the economic, legal and policy aspects of environmental debate, of the role of governments and their agencies, and of the ethical and philosophical background against which decisions are made. Specific current, and possibly highly controversial, environmental issues are used to illustrate more general points made and to engender classroom discussion.
Important Academic Dates

Information about important academic dates including deadlines for withdrawing from units are available at https://students.mq.edu.au/important-dates

Learning Outcomes

1. Develop the ability to write cogent and clearly structured reports.
2. Capacity to identify relevant findings and other information.
3. Develop creative and innovative thinking.
4. Develop skills in analysis, synthesis and critical thinking.
5. Develop the capacity for independent learning and inquiry.
6. Develop their sense of social, ethical and professional responsibility.

Assessment Tasks

<table>
<thead>
<tr>
<th>Name</th>
<th>Weighting</th>
<th>Due</th>
</tr>
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<tbody>
<tr>
<td>Short Report</td>
<td>10%</td>
<td>Monday 23 March</td>
</tr>
<tr>
<td>Case Study 1</td>
<td>30%</td>
<td>Monday 20th April</td>
</tr>
<tr>
<td>Case Study 2</td>
<td>40%</td>
<td>Monday 15 May</td>
</tr>
<tr>
<td>Class Participation</td>
<td>20%</td>
<td>Tutorials 2-11</td>
</tr>
</tbody>
</table>

Short Report

Due: Monday 23 March
Weighting: 10%

Task 1: Short Report - 500 words

Your first task is to write a 500 word report on something to do with environmental decision making that interests you.

Your report must be:

• concise
• include links to high quality resources available online, including some peer reviewed journal articles (use links for these that you used to find them through the Macquarie University Library website, so that your fellow students can get to them easily)
• written in the light of the Assessment Standards.

Topics you could write about include:

• Definitions of key terms
Outlines of important decision making theories
• Reviews of important peer reviewed journal articles
• Descriptions of important formal decision-making processes
• Descriptions of key tools and methods developed to support decision makers
• Explanations of prominent decision making failure

This Assessment Task relates to the following Learning Outcomes:
• Develop the ability to write cogent and clearly structured reports.
• Capacity to identify relevant findings and other information.
• Develop skills in analysis, synthesis and critical thinking.

Case Study 1
Due: **Monday 20th April**
Weighting: **30%**

**Write an 1800 word essay analysing an environmental decision**

Your task is to write an 1800 word essay to analyse an existing environmental decision situation with the objective of discussing the successes and/or failures of the decision.

Choose a substantial, interesting environmental planning or environmental management decision (one that has already been made) and analyse it from the perspective of ecological sustainability, and, if you wish, also of social justice and/or economic efficiency.

Some examples of substantial environmental decisions are:

• a major development proposal, e.g. a uranium mining proposal, or a desalination plant proposal
• a major land use plan, e.g. a Local Environmental Plan, a biodiversity conservation strategy, a metropolitan strategy, a coastline management plan
• a major natural resource management plan, e.g. a strategic plan for the Murray Darling Basin, a strategic plan for the Great Barrier Reef, a fisheries management plan
• a risk management strategy for a major issue, e.g. management of risk of fire in rural Victoria;
• development of policy for a sector, e.g. a metropolitan transport strategy, or a renewable energy strategy; or
• development of a policy position for an international negotiation, e.g. development of an Australian position on climate change to take to the negotiations of the UNFCC Conference of the Parties (COP).
This Assessment Task relates to the following Learning Outcomes:

- Develop the ability to write cogent and clearly structured reports.
- Capacity to identify relevant findings and other information.
- Develop skills in analysis, synthesis and critical thinking.
- Develop the capacity for independent learning and inquiry.
- Develop their sense of social, ethical and professional responsibility.

Case Study 2

Due: **Monday 15 May**
Weighting: **40%**

This is a combination of an individual project and a group project and you will be randomly allocated into groups of 4-5 people, in each tutorial group, to prepare this assignment. Each group will select a recent or forthcoming environmental decision that will be the focus of individuals assignments and a group poster. Groups will be selected prior to the mid-semester break. The two tasks are:

**Task 1 - Conduct individual research and write a research report that is the basis of your contribution to the poster in the form of an 1800 word research essay - due Monday 15 May - 30%**

The first task of this assignment requires each student to submit a research essay that demonstrates your capacity to identify and summarise the academic literature relevant to a specific topic. Your task is to take an allocated element of the decision your team is analyzing and to undertake a library search of the academic literature and write a research report that summarises your conclusions about that aspect of the case. You will undertake a literature search on the topic area using the database resources of the Macquarie University Library, and appropriate web-based search engines and write a report that describes (i) the importance of the issue you are investigating for an evaluation the decision, (ii) your conclusions re this issue, and (iii) your reasons for reaching these conclusions.

When you are looking for relevant literature, consider:

- what research has been done on **kinds of place** like those that come up in your case study?
- what research has been done on the **issues** that come up in your case study?
- what research provides helpful **background** for considering decisions of this kind (e.g. re decision making methods, key concepts, ethical stances)?

**Task 2 – Contribute to Case Study Decision Analysis Group Poster - presentations in tutorials in weeks 12 and 13 - 10%**

In groups of 4 - 5 people, prepare an academic poster (specific guidelines will be provided in class) that provides a coherent analysis of a major environmental decision-making situation. Your analysis should clearly identify the decision and its context(s), establish what relevant
perceived, real and ideal drivers influenced the decision-making process, and link your analysis to the relevant academic literature. Separate detailed presentation guidelines will be provided. You may be innovative in your presentation, so long as the final product conforms to the guidelines and can be displayed on a wall or display board. It is up to each team to determine how tasks are divided or shared, and all contributors to the poster should be clearly listed below the title as joint authors.

Posters will be marked on a pass / fail basis. Individual marks will depend on the mark earned individually for task 1 (the written assignment). Thus, if the group fails the poster, each member will earn zero; if it passes, then the mark each individual receives will depend on the quality of their individual contribution, as measured by their grade for task 1.

You should ensure that communication is the key principle used in designing and developing your poster. You should use maps, tables and other illustrative material to effectively describe the scenario under consideration and to summarize key information. The text of your poster should be legible and all sources should be accurately cited and referenced. The final format of the poster is a decision for the team.

This Assessment Task relates to the following Learning Outcomes:

- Develop the ability to write cogent and clearly structured reports.
- Capacity to identify relevant findings and other information.
- Develop creative and innovative thinking.
- Develop skills in analysis, synthesis and critical thinking.
- Develop the capacity for independent learning and inquiry.
- Develop their sense of social, ethical and professional responsibility.

Class Participation

Due: Tutorials 2-11
Weighting: 20%

In ENV300, 20% of your overall grade for the unit is assigned to your participation in tutorials.

Task 1 – Attend all tutorials and lectures

Attendance will be recorded for all tutorials and lectures. If you attend less than 80% of the tutorial sessions, or less than 80% of the lectures, marks will be deducted. (If you have special circumstances that you think warrant an exemption from the lecture attendance requirement, contact the unit convenor.)

Task 2 – Read the two assigned readings, and present one of them if requested

For each week’s tutorial read the two assigned readings, and be prepared to present each of them to the class. In each week’s tutorial, two people will be selected randomly to present a brief (5 minute) summary of one of the assigned readings and to facilitate a class discussion. You will not be allowed to use Microsoft Powerpoint or any other electronic presentation tools but you will
be allowed to use the whiteboard if you wish. Your performance will be assessed using a simple marking sheet that indicates the strength of your contributions. Further details on marking criteria will be provided in class.

This Assessment Task relates to the following Learning Outcomes:
- Capacity to identify relevant findings and other information.
- Develop creative and innovative thinking.
- Develop skills in analysis, synthesis and critical thinking.
- Develop the capacity for independent learning and inquiry.
- Develop their sense of social, ethical and professional responsibility.

**Delivery and Resources**

**EXPECTATIONS**

**Teaching and Learning Strategy**

The teaching process has four main elements:

1. Lectures that introduce basic concepts. In ENV300 the lectures are all pectorals: they intermingle lecture content, discussion, and workshop exercises. This is why attendance is compulsory: you need to be in the room to participate to learn by participating.
2. Talks from guest lecturers that convey the complexities of environmental and sustainability decision-making, in practice, in diverse settings. These workshops used an approach inspired by the Harvard Business School's case study method: the guests introduce a decision situation, then we discuss what you would do in their shoes, then they tell us what they actually did, and we all discuss that.
3. Tutorials in which students explore the research literature around environmental decision making.
4. Assignments that require students to understand key skills, including systems thinking, stakeholder analysis, management system analysis, and integrative thinking.

Lectures, tutorials and assignments introduce students to:
- identifying social, economic and ecological interdependencies
- identifying political, institutional and managerial issues
- identifying scientific, legal, engineering, planning, and other technical information relevant to decisions
• appreciating complexity and uncertainty in environmental and sustainable development decisions
• appreciating the variety of formal and informal decision making processes that shape sustainability outcomes at local, regional, national and international levels, and
• appreciating the wide range of tools and methods that can support environmental decision-making, through a mixture of theory and case studies.

Students are expected to:

• read set readings in advance for tutorials;
• participate in tutorial discussions; and
• follow current developments with regard to environmental decision-making, environmental policy and sustainable development in the media.

**Tecnologies used and required**

ENV300 uses a wide variety of online resources, including an iLearn page to make slides and audio from lectures available, the Macquarie University Library for access to peer reviewed journal articles, and the web generally for news about, and discussions of, environmental decision making.

**Workload expectation**

It is generally expected that students will commit 3 hours per week per credit point in their studies. Thus, in addition to attending weekly lectures and tutorials for three hours, students in ENV300 are expected to complete appropriate reading, research and other activities equivalent to at least 6 hours per week. Thus the total workload for this unit should be considered as a minimum of 9 hours per week throughout the semester. If you are unable to make this commitment to your study, then you should reconsider your decision to enrol – or reassess your priorities. For virtually each student in the class, this unit is a core element of your final year studies and you should be aiming to secure as high a grade as possible. If you consider that you may have difficulty making this commitment, please discuss your situation with the Unit Convenor.

**Requirements to complete the unit satisfactorily**

• attend at least 80% of scheduled tutorials and lectures
• participate in class discussions, workshops and activities
• complete all assessment tasks

**ASSESSMENT**
Assessment Standards

Many specific aspects of your work are important (as identified in the following standards), but it is the overall quality of the completed work that is important. Assignments will be assessed holistically. The following bands are ‘ideal types’: lists of the features of typical examples of assignments at each level.

The standard of each assignment is obviously important - good grades demonstrate that your work is competent, proficient or excellent. But from a learning perspective, it is equally important to look at your own work developmentally: to look for gradual improvement, deepening insight, and broadening competency. Grades for assignments assess the standard of your work. Comments on assignments are intended to be helpful developmentally: indicating what you have achieved, and how you could improve your work.

For a grade of High Distinction (>= 85%)

- use and synthesis of a variety of high quality sources not mentioned in class or on reading lists;
- considered use of dictionary and technical terms, diagrams and/or other sources to define and set the topic in context;
- incisive and decisive specification of the key issues;
- prioritisation and exposition of the key issues in a clear and logical sequence;
- relevant contrary arguments are identified and effectively dealt with;
- discussion forms a sound basis for clear, justified and comprehensive recommendations and conclusions;
- independence of thought and obvious originality;
- demonstrated ability to weigh arguments and form clear, considered personal viewpoints;
- proficient use of the English language;
- references presented at ‘publishable’ standard.

Overall, your work demonstrates, in an interesting or challenging way, originality based on proficiency in all the learning objectives.

For a grade of Distinction (75-84%)

- use and synthesis of some high quality sources not mentioned in class or on reading lists, and reference to some others;
- adequate use of dictionary and technical terms, diagrams and/or other sources to define and set the topic in context;
- clear specification of the key issues;
- key issues generally presented in a logical sequence;
- relevant contrary arguments raised but might not be fully resolved;
• discussion leads to clear and justified recommendations and conclusions;
• independence of thought and significant originality;
• general ability to weigh arguments and form personal viewpoints;
• clear use of the English language;
• references largely error free.

Overall, your work demonstrates a comprehensive awareness and understanding of the topic of the assignment.

For a grade of Credit (65-74%)

• use and synthesis of some high quality sources, and reference to some additional good quality material;
• use of dictionary and technical terms to define and contextualise the topic;
• overall awareness of the key issues;
• the selected key issues generally presented in a logical sequence;
• some contrary arguments raised with inadequate appreciation of their significance;
• a clear statement of conclusions and recommendations;
• some independent thought but limited originality;
• difficulties in weighing arguments and presenting personal viewpoints;
• sometimes proficient and always passable use of the English language;
• some errors of omission or detail in presentation of references.

Overall, your work demonstrates the ability to use and apply fundamental concepts and skills.

For a grade of Pass (50-64%)

• limited use and synthesis of good quality sources;
• use of dictionary or vernacular definitions in an attempt to identify and set the topic in context;
• some awareness of the key issues;
• some attempt to order the argument, but flaws in logical discipline;
• few contrary arguments raised and little appreciation of their significance or resolution;
• a generally clear statement of conclusions and recommendations;
• little independent thought and minimal originality;
• little weighing of argument and lack of clarity in personal viewpoints;
• passable use of the English language;
• some errors of omission or detail in presentation of references.

Overall, your work satisfies the basic learning requirements of the assignment.

For a grade of Fail (45-49%)
• at the lower end of the acceptable range for most criteria for a grade of Pass.

For a lower grade of Fail (26-44%)

• lack of awareness of sources or what the question is about;
• confused definitions;
• general inability to identify the key issues;
• inability to order the argument;
• few, if any, contrary arguments raised and no appreciation of their significance or resolution;
• inadequate statement of conclusions or recommendations;
• no independent thought or originality;
• no ability to weigh arguments or form personal viewpoints.

For a grade of Serious Fail (< 26%)

• no reference to suggested sources, generally inappropriate use of materials
• no attempt at definitions;
• no awareness of key issues, such that the paper fails to address or answer the question;
• arguments unformulated, many errors, unsupported assertions, unjustified generalisations;
• contrary arguments impugned or ignored;
• inconclusive outcome to the paper;
• no independent thought, any originality likely to be illogical;
• inability to weigh arguments, personal viewpoints absent or inadequate.


Writing Guide

All written work should follow the conventions laid out in the GSE Writing Guide, available on iLearn. This covers details of how to reference different kinds of source, amongst other things.

Acknowledging others' contributions

Acknowledging your debts to other people's work - your use of their exact words or their ideas - is fundamental to good scholarship. We recommend reviewing Georgetown University's very helpful guide to honest, transparent acknowledgment of your sources: http://honorcouncil.georgetown.edu/whatisplagiarism.
Submission of Assignments

Assignments 1, 2 and 3 are to be submitted electronically via iLearn by midnight on the due date.

Assignments 1, 2, and 3 will be reviewed by Turnitin, which helps us check whether sources are properly acknowledged, and whether assignments submitted are each student’s own work.

Late submissions

Extensions must be requested by email from the unit convenor, Dr Greg Walkerden, (greg.walkerden@mq.edu.au) prior to the assignment’s due date (except in exceptional circumstances), and supported by appropriate documentation (e.g. a medical certificate).

An extension has only been granted if it is provided in writing (by email). Otherwise automatic penalties will apply. Assignments that are handed in late without an extension or exceptional circumstances will not be marked if they are submitted more than 7 days after the due date. If submitted within 7 days, marks will be deducted for lateness at the rate of 5% of the possible mark per day late. If you are having difficulties, please get in touch with the Unit Convenor.

READING

Unit Web Page

The unit is available at: ilearn.mq.edu.au

Required readings

<table>
<thead>
<tr>
<th>Week</th>
<th>Reflections on environmental decision making</th>
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<tbody>
<tr>
<td>1</td>
<td>Excerpts from Aldo Leopold 1949 <em>A Sand County Almanac</em>, available on iLearn.</td>
</tr>
<tr>
<td></td>
<td>Carl Walters (n.d.) <em>The Resilience of Systems</em>, included in workshop materials at a 1988 AEAM workshop at Macquarie University, available on iLearn.</td>
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<tr>
<th>Week</th>
<th>Global environmental history &amp; dynamics</th>
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<tr>
<th>Week</th>
<th>Systems thinking</th>
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<td>Week</td>
<td>Systems thinking</td>
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<tr>
<th>Week 5</th>
<th>Stakeholders, knowledges, power &amp; negotiation</th>
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<tr>
<th>Week 6</th>
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<th>Week 7</th>
<th>Environmental governance and management</th>
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<th>Week 8</th>
<th>Environmental governance and management</th>
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<th>Week 9</th>
<th>Integration in decision making</th>
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<tr>
<th>Week 10</th>
<th>Professional practice</th>
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<tr>
<th>Week 11</th>
<th>Professional practice</th>
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Additional journal articles

In addition to the required reading for ENV300, you should also be developing your program of professional reading – identifying journals that you regularly browse and may subscribe to as a professional; making a list of key authors and institutions whose work you look out for; and building up a set of key words that you regularly use for searching websites and journal databases.

Google Scholar (http://scholar.google.com.au/advanced_scholar_search) is an excellent starting point for finding interesting journal articles. The University Library (http://www.mq.edu.au/on-campus/library/) lets students download PDFs of a very large number of peer reviewed journal articles, and includes an excellent keyword and phrase search facility (MultiSearch).

Some recommended journals

<table>
<thead>
<tr>
<th>Action Research</th>
<th>Environmental Values</th>
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<tbody>
<tr>
<td>Administrative Science Quarterly</td>
<td>Ethics, Place and Environment</td>
</tr>
<tr>
<td>Alternatives</td>
<td>Forest Ecology and Management</td>
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<tr>
<td>Ambio</td>
<td>Global Environmental Change</td>
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<tr>
<td>Australasian Journal of Environmental Management</td>
<td>Habitat</td>
</tr>
<tr>
<td>Australian Geographer</td>
<td>Industrial and Corporate Change</td>
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<tr>
<td>Climatic Change</td>
<td>International Journal of Environmental Studies</td>
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<tr>
<td>Coastal Management</td>
<td>Journal of Environmental Management</td>
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<tr>
<td>Conservation Biology</td>
<td>Journal of Environmental Planning and Management</td>
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<tr>
<td>Ecological Economics</td>
<td>Journal of Management Inquiry</td>
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<tr>
<td>Ecology and Society</td>
<td>Journal of Management Studies</td>
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<tr>
<td>Environment</td>
<td>Landscape and Urban Planning</td>
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<tr>
<td>Environment and Planning Law Journal</td>
<td>Local Environment</td>
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<tr>
<td>Environment, development &amp; sustainability</td>
<td>Management Learning</td>
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<tr>
<td>Environmental Conservation</td>
<td>Natural Resources Journal</td>
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<tr>
<td>Environmental Ethics</td>
<td>Organization</td>
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<tr>
<td>Environmental History</td>
<td>Organization Studies</td>
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<tr>
<td>Environmental Impact Assessment Review</td>
<td>Organizational Dynamics</td>
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<tr>
<td>Environmental Law Reporter (NSW)</td>
<td>Policy Sciences</td>
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<tr>
<td>Environmental Management</td>
<td>Public Administration Review</td>
</tr>
<tr>
<td>Environmental Politics</td>
<td>Society and Natural Resources</td>
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<tr>
<td>Environmental science &amp; policy</td>
<td>Strategic Management Journal</td>
</tr>
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Recommended Texts

The following are recommended background reading:

- Harding R, CM Hendriks & M Faruqi 2009 Environmental Decision-making: Exploring
Complexity and Context, The Federation Press, Sydney


### Some useful websites

<table>
<thead>
<tr>
<th>Organisation/Subject</th>
<th>Web Address</th>
</tr>
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<tbody>
<tr>
<td><strong>International</strong></td>
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<tr>
<td>US Environment Protection Agency</td>
<td><a href="http://www.epa.gov/epahome/">http://www.epa.gov/epahome/</a></td>
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<tr>
<td>IISD Linkages</td>
<td><a href="http://www.iisd.ca/">http://www.iisd.ca/</a></td>
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<tr>
<td>World Resources Institute</td>
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<td>UNEP</td>
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<td>Greenpeace International</td>
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<td>IUCN World Commission on Protected Areas</td>
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<td><strong>National</strong></td>
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<tr>
<td>Department of the Environment</td>
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<tr>
<td>Dept of Innovation, Industry, Science and Research</td>
<td></td>
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<tr>
<td><strong>State</strong></td>
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<td>NSW Government Departments</td>
<td><a href="http://www.nsw.gov.au">http://www.nsw.gov.au</a></td>
</tr>
<tr>
<td>Environment and Heritage Protection (Queensland)</td>
<td><a href="http://www.ehp.qld.gov.au">http://www.ehp.qld.gov.au</a></td>
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<tr>
<td>Department of Environment and Conservation (WA)</td>
<td><a href="http://www.dec.wa.gov.au">http://www.dec.wa.gov.au</a></td>
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Environmental News Sites

Students are expected to follow current developments with regard to environmental decision-making, environmental policy and sustainable development in the media.

- ABC News - [http://www.abc.net.au/environment/](http://www.abc.net.au/environment/)
- Science - [http://news.sciencemag.org](http://news.sciencemag.org)
- Planet Ark - [http://planetark.org/enviro-news/](http://planetark.org/enviro-news/)
- The Guardian (UK) - [http://www.theguardian.com/environment](http://www.theguardian.com/environment)
- Salon (USA) - [http://www.salon.com/category/sustainability/](http://www.salon.com/category/sustainability/)
- Deutsch Vella (Germany) - [http://www.dw.de/top-stories/environment/s-11798](http://www.dw.de/top-stories/environment/s-11798)

Unit Schedule

13 weeks of Lectures and Tutorials. There are tutorials in week 1.
Please check the University Timetable - [https://timetables.mq.edu.au](https://timetables.mq.edu.au) - to confirm the classrooms for tutorials and lectures, as sometimes these change at the beginning of Session (to adjust to numbers of students enrolling).

Week 1 - Introduction, and Global Environmental History

Week 2 - Systems Thinking I

Week 3 - Systems Thinking II

Week 4 - Stakeholders, knowledges, power & negotiation I

Week 5 - Stakeholders, knowledges, power & negotiation II

Week 6 - Environmental governance & management I

Week 7 - Environmental governance & management II

Week 8 - Integration in decision making I

Week 9 - Integration in decision making II

Week 10 - Guest workshop: putting yourself in a decision-maker's shoes I

Week 11 - Guest workshop: putting yourself in a decision-maker's shoes II

Week 12 - Guest workshop: putting yourself in a decision-maker's shoes III

Week 13 - Guest workshop: putting yourself in a decision-maker's shoes IV

Further details of the unit can be found on iLearn - [https://ilearn.mq.edu.au](https://ilearn.mq.edu.au).

**Policies and Procedures**

Macquarie University policies and procedures are accessible from [Policy Central](http://mq.edu.au/policy/docs/policycentral/policy.html). Students should be aware of the following policies in particular with regard to Learning and Teaching:


In addition, a number of other policies can be found in the [Learning and Teaching Category](http://mq.edu.au/policy/docs/learning_and_teaching/policy.html) of Policy Central.

**Student Code of Conduct**

Macquarie University students have a responsibility to be familiar with the Student Code of

[https://unitguides.mq.edu.au/unit_offerings/46786/unit_guide/print](https://unitguides.mq.edu.au/unit_offerings/46786/unit_guide/print)
**Student Support**

Macquarie University provides a range of support services for students. For details, visit [http://students.mq.edu.au/support/](http://students.mq.edu.au/support/)

**Learning Skills**

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- Workshops
- StudyWise
- Academic Integrity Module for Students
- Ask a Learning Adviser

**Student Enquiry Service**

For all student enquiries, visit Student Connect at [ask.mq.edu.au](http://ask.mq.edu.au)

**Equity Support**

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**IT Help**


When using the University's IT, you must adhere to the [Acceptable Use Policy](http://informatics.mq.edu.au/help/). The policy applies to all who connect to the MQ network including students.

**Graduate Capabilities**

**Discipline Specific Knowledge and Skills**

Our graduates will take with them the intellectual development, depth and breadth of knowledge, scholarly understanding, and specific subject content in their chosen fields to make them competent and confident in their subject or profession. They will be able to demonstrate, where relevant, professional technical competence and meet professional standards. They will be able to articulate the structure of knowledge of their discipline, be able to adapt discipline-specific knowledge to novel situations, and be able to contribute from their discipline to inter-disciplinary

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**Unit guide** ENV 300 Environmental Decision Making

Conduct: [https://students.mq.edu.au/support/student_conduct/](https://students.mq.edu.au/support/student_conduct/)

**Results**

Results shown in *iLearn*, or released directly by your Unit Convenor, are not confirmed as they are subject to final approval by the University. Once approved, final results will be sent to your student email address and will be made available in [eStudent](http://students.mq.edu.au/support/). For more information visit [ask.mq.edu.au](http://ask.mq.edu.au).

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solutions to problems.

This graduate capability is supported by:

**Learning outcome**

- Develop skills in analysis, synthesis and critical thinking.

**Assessment tasks**

- Short Report
- Case Study 1
- Case Study 2
- Class Participation

**Critical, Analytical and Integrative Thinking**

We want our graduates to be capable of reasoning, questioning and analysing, and to integrate and synthesise learning and knowledge from a range of sources and environments; to be able to critique constraints, assumptions and limitations; to be able to think independently and systemically in relation to scholarly activity, in the workplace, and in the world. We want them to have a level of scientific and information technology literacy.

This graduate capability is supported by:

**Learning outcomes**

- Develop the ability to write cogent and clearly structured reports.
- Develop creative and innovative thinking.
- Develop skills in analysis, synthesis and critical thinking.
- Develop their sense of social, ethical and professional responsibility.

**Assessment tasks**

- Short Report
- Case Study 1
- Case Study 2
- Class Participation

**Problem Solving and Research Capability**

Our graduates should be capable of researching; of analysing, and interpreting and assessing data and information in various forms; of drawing connections across fields of knowledge; and they should be able to relate their knowledge to complex situations at work or in the world, in order to diagnose and solve problems. We want them to have the confidence to take the initiative in doing so, within an awareness of their own limitations.

This graduate capability is supported by:
Learning outcomes

• Develop the ability to write cogent and clearly structured reports.
• Capacity to identify relevant findings and other information.
• Develop creative and innovative thinking.
• Develop skills in analysis, synthesis and critical thinking.
• Develop the capacity for independent learning and inquiry.
• Develop their sense of social, ethical and professional responsibility.

Assessment tasks

• Short Report
• Case Study 1
• Case Study 2
• Class Participation

Creative and Innovative

Our graduates will also be capable of creative thinking and of creating knowledge. They will be imaginative and open to experience and capable of innovation at work and in the community. We want them to be engaged in applying their critical, creative thinking.

This graduate capability is supported by:

Learning outcomes

• Develop creative and innovative thinking.
• Develop the capacity for independent learning and inquiry.

Assessment tasks

• Case Study 2
• Class Participation

Effective Communication

We want to develop in our students the ability to communicate and convey their views in forms effective with different audiences. We want our graduates to take with them the capability to read, listen, question, gather and evaluate information resources in a variety of formats, assess, write clearly, speak effectively, and to use visual communication and communication technologies as appropriate.

This graduate capability is supported by:

Learning outcome

• Develop the ability to write cogent and clearly structured reports.
Assessment tasks

• Short Report
• Case Study 1
• Case Study 2
• Class Participation

Engaged and Ethical Local and Global citizens

As local citizens our graduates will be aware of indigenous perspectives and of the nation's historical context. They will be engaged with the challenges of contemporary society and with knowledge and ideas. We want our graduates to have respect for diversity, to be open-minded, sensitive to others and inclusive, and to be open to other cultures and perspectives: they should have a level of cultural literacy. Our graduates should be aware of disadvantage and social justice, and be willing to participate to help create a wiser and better society.

This graduate capability is supported by:

Learning outcome

• Develop their sense of social, ethical and professional responsibility.

Assessment tasks

• Case Study 1
• Case Study 2
• Class Participation

Socially and Environmentally Active and Responsible

We want our graduates to be aware of and have respect for self and others; to be able to work with others as a leader and a team player; to have a sense of connectedness with others and country; and to have a sense of mutual obligation. Our graduates should be informed and active participants in moving society towards sustainability.

This graduate capability is supported by:

Learning outcome

• Develop their sense of social, ethical and professional responsibility.

Assessment task

• Case Study 1

Capable of Professional and Personal Judgement and Initiative

We want our graduates to have emotional intelligence and sound interpersonal skills and to demonstrate discernment and common sense in their professional and personal judgement. They will exercise initiative as needed. They will be capable of risk assessment, and be able to
handle ambiguity and complexity, enabling them to be adaptable in diverse and changing environments.

This graduate capability is supported by:

**Learning outcomes**

- Develop creative and innovative thinking.
- Develop skills in analysis, synthesis and critical thinking.
- Develop the capacity for independent learning and inquiry.
- Develop their sense of social, ethical and professional responsibility.

**Assessment tasks**

- Case Study 1
- Case Study 2
- Class Participation

**Commitment to Continuous Learning**

Our graduates will have enquiring minds and a literate curiosity which will lead them to pursue knowledge for its own sake. They will continue to pursue learning in their careers and as they participate in the world. They will be capable of reflecting on their experiences and relationships with others and the environment, learning from them, and growing - personally, professionally and socially.

This graduate capability is supported by:

**Learning outcomes**

- Develop creative and innovative thinking.
- Develop the capacity for independent learning and inquiry.

**Assessment task**

- Class Participation