



ENVS3462

Environmental Management

Session 2, Special circumstance 2020

Department of Earth and Environmental Sciences

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Disclaimer

Macquarie University has taken all reasonable measures to ensure the information in this publication is accurate and up-to-date. However, the information may change or become out-dated as a result of change in University policies, procedures or rules. The University reserves the right to make changes to any information in this publication without notice. Users of this publication are advised to check the website version of this publication [or the relevant faculty or department] before acting on any information in this publication.

Notice

As part of [Phase 3 of our return to campus plan](#), most units will now run tutorials, seminars and other small group learning activities on campus for the second half-year, while keeping an online version available for those students unable to return or those who choose to continue their studies online.

To check the availability of face-to-face and online activities for your unit, please go to [timetable viewer](#). To check detailed information on unit assessments visit your unit's iLearn space or consult your unit convenor.

General Information

Unit convenor and teaching staff

Convenor, Lecturer

Emilie Ens

emilie.ens@mq.edu.au

By email appointment

Lecturer

Kerrie Tomkins

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By email appointment

Lecturer

Scott Wilson

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By email appointment

Credit points

10

Prerequisites

130cp at 1000 level or above including (ENV267 or ENV52467 or ENV5214 or ENV52115)

Corequisites

Co-badged status

Unit description

This unit provides an advanced understanding of the interdisciplinary links between environmental research, management strategies and policy frameworks that are fundamental to environmental management. We explore significant issues and challenges associated with managing dynamic human-nature systems. The unit includes field visits to sites of environmental and Indigenous cultural importance in the Sydney region. Students will develop skills in GIS, App development, data management, science communication, video-editing, policy assessment, grant writing and professional literacy that are designed to enhance employability.

Important Academic Dates

Information about important academic dates including deadlines for withdrawing from units are available at <https://www.mq.edu.au/study/calendar-of-dates>

Learning Outcomes

On successful completion of this unit, you will be able to:

ULO1: Identify and explain the key terms, concepts and approaches in environmental management.

ULO2: Evaluate the principal threats to environmental systems and develop appropriate management strategies.

ULO3: Analyse and communicate complex issues in environmental management.

ULO4: Utilise maps, graphs, statistics, images and text to convey information to diverse stakeholders in environmental management.

ULO5: Critically read, think about, interpret and evaluate environmental and social science data and other information relating to environmental policy, planning and legislation.

Assessment Tasks

Name	Weighting	Hurdle	Due
<u>Module Quizzes</u>	40%	No	At the end of each module
<u>Video of site biocultural values</u>	30%	No	Week 9
<u>Grant application</u>	30%	No	Week 13

Module Quizzes

Assessment Type ¹: Quiz/Test

Indicative Time on Task ²: 30 hours

Due: **At the end of each module**

Weighting: **40%**

For each module students will need to complete a 20 question multiple choice quiz.

On successful completion you will be able to:

- Identify and explain the key terms, concepts and approaches in environmental management.

Video of site biocultural values

Assessment Type ¹: Media presentation

Indicative Time on Task ²: 20 hours

Due: **Week 9**

Weighting: **30%**

Drawing on practical classes and lectures you are required to produce a 5 minute video on the biocultural values of an environmental management site including GIS maps, data collected using your App and links to relevant Australian legislation and policies.

On successful completion you will be able to:

- Identify and explain the key terms, concepts and approaches in environmental management.
- Evaluate the principal threats to environmental systems and develop appropriate management strategies.
- Analyse and communicate complex issues in environmental management.
- Utilise maps, graphs, statistics, images and text to convey information to diverse stakeholders in environmental management.
- Critically read, think about, interpret and evaluate environmental and social science data and other information relating to environmental policy, planning and legislation.

Grant application

Assessment Type ¹: Professional writing

Indicative Time on Task ²: 20 hours

Due: **Week 13**

Weighting: **30%**

This assessment task requires you to use the template provided in class to write an Expression of Interest for a grant application focusing on an environmental monitoring project.

On successful completion you will be able to:

- Identify and explain the key terms, concepts and approaches in environmental management.
- Evaluate the principal threats to environmental systems and develop appropriate management strategies.
- Analyse and communicate complex issues in environmental management.
- Utilise maps, graphs, statistics, images and text to convey information to diverse

stakeholders in environmental management.

- Critically read, think about, interpret and evaluate environmental and social science data and other information relating to environmental policy, planning and legislation.

¹ If you need help with your assignment, please contact:

- the academic teaching staff in your unit for guidance in understanding or completing this type of assessment
- the [Writing Centre](#) for academic skills support.

² Indicative time-on-task is an estimate of the time required for completion of the assessment task and is subject to individual variation

Delivery and Resources

Delivery

The timetable for ENV5362 can be found at: <https://timetables.mq.edu.au/>. A detailed class schedule with online lectures and practical topics (including face to face and online practical options) is provided below. Check iLearn regularly for any class schedule updates. ENV53462 is taught via lectures, practicals, field trips, readings and assessment tasks. It is offered to internal and external students. Students should make use of iLearn to access teaching and learning materials, to submit assignments, to stay in touch with the unit, to contact lecturers, and to discuss issues and concepts with classmates.

Workload

ENV53462 earns 10 credit points towards your degree. University guidelines state for a 10 credit point unit you are expected to put in at least 9 hours of study per week on average over the semester; around 135 hours in total. This requires planning on your part to do all the work required in lectures, practicals, assignments, and the readings.

Resources

iLearn

The ENV53462 iLearn page can be found at: <https://ilearn.mq.edu.au/login/MQ/> Information about how students can access iLearn can be found at: http://www.mq.edu.au/iLearn/student_info/index.htm. The iLearn page uses Macquarie University's standard interface and has links, discussion threads and access to lectures (as audio files through Echo360, and as downloadable PDF presentations) and practical material. Important announcements will be made through iLearn, so please check the ENV53462 page regularly.

Echo360

Information about how to access lecture recordings through the Echo360 EchoCenter page in iLearn can be found at: http://mq.edu.au/iLearn/student_info/lecture_recordings.htm

Turnitin

Macquarie University promotes student awareness of information management and information ethics. As well as training and the provision of information, the University tackles the issue of academic honesty through the use of the online program Turnitin. Information about how to submit assignments to Turnitin in iLearn can be found at: http://mq.edu.au/iLearn/student_info/assignments.htm As well as being a key tool for assignment submission, marking and feedback, Turnitin compares your work with the work of your classmates, with previous students from Macquarie and other universities, with material available on the Internet, and with freely available and subscription based electronic journals. The results are sent only to your lecturers, who will analyse them in reference to the University's Academic Honesty Policy. You will be able to access the results of the Turnitin academic honesty scan for your own assignments, known as your 'originality report'. In ENV53462, we will allow you to overwrite the initial submission file with a second submission if you choose to do so, but only up until the final due date and time for the assignment. We consider this opportunity to fine-tune your academic honesty a considerable resource, and we hope that you will use this review process constructively to ensure you are referencing other material correctly and effectively.

Recommended Texts

There is no prescribed textbook for ENV53462, however, you are expected to complete the weekly readings and the following books may be of particular interest:

- Allan, C. and Stankey, G.H. (Eds.) 2009. Adaptive Environmental Management: A Practitioner's Guide. Springer, New York, and CSIRO Publishing.
- Conacher, A. and Conacher, J. 2000. Environmental Planning and Management in Australia. Oxford University Press, U.K.
- Dovers, S. and Wild River, S. (Eds.) 2003. Managing Australia's Environment. The Federation Press, Leichhardt, New South Wales.
- Burns, E., D. Lindenmayer, A. Lowe and N. Thurgate (Eds). 2014. Biodiversity and Environmental Change: Monitoring, Challenges and Direction, CSIRO Publishing.
- Hay, I. 2012. Communicating in Geography and the Environmental Sciences (Fourth Edition). Oxford University Press, Melbourne.
- Keen, M., V. A. Brown and R. Dyball. 2005. Social learning in environmental management: towards a sustainable future, Routledge.

The following journals may also be particularly useful: • Journal of Environmental Management • Australasian Journal of Environmental Management • Environment International • Ecological Management and Restoration • Science of the Total Environment

Also check out the following websites for the latest information on global and Australian environments and their management: • Australia State of the Environment 2016. Available online at <http://www.environment.gov.au/soe/index.html> • Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services <http://www.ipbes.net/about-us>.

- United Nations Environment Program <http://www.unep.org>
- United Nations Sustainable Development Goals <https://www.un.org/sustainabledevelopment/sustainable-development-goals/>

Unit Schedule

Week	Lecture Date	Lecture Topics (Online: Thurs 9-11am)	Practical Classes Face to Face: Th 11-1, Th 3-5; Fr 3-5 Online: Th 5-7	Assessment Tasks
MODULE 1: Multidisciplinarity and Conservation - Emilie Ens				
1	30 July	L1 Multidisciplinary contexts and challenges in Environmental Management (EM) L2 People in EM and Citizen science	P1 Lane Cove NP mapping and AHIMS data (GIS)	
2	6 Aug	L3 Effective communication in EM L4 EM and the "market"	P2 Make your own field data collection App (Citizen Science)	
3	13 Aug	L5 Global conservation policy L6 Australian conservation policy	P3 Adding your Lane Cove NP field data to your GIS map.	MODULE 1 Quiz Due: Tues 18th Aug 5pm (10%)
MODULE 2: Environmental Law and Sustainability - Scott Wilson				
4	20 Aug	L7 Introduction to Environmental Law L8 Planning & Development Assessment	P4 Interrogation of a Review of Environmental Factors	
5	27 Aug	L9 and L10: GUEST LECTURE: Environmental Defenders Office NSW	P5 - No Practical -	
6	3 Sep	L11 Principles of Sustainable Development L12 Application of Sustainable Development	P6 Sustainability on campus	
7	10 Sep	L13 Waste Management I L14 Waste Management II	P7 Conducting a Waste Audit	MODULE 2 Quiz Due: Tues 15 Sept 5pm (10%)
Mid-Semester Break (14th Sept – 25th September)				
MODULE 3: Indigenous Environmental Management (Caring for Country) - Emilie Ens				
8	1 Oct	L15 and L16 Indigenous Cultural awareness INDIGENOUS GUEST LECTURER	P8 Video editing workshop	

9	8 Oct	<p>L17 Caring for Country policy and programs</p> <p>L18 Caring for Sea Country</p>	<p>P9 Proposed (COVID dependent) Field trip: Botany Bay (Kamay)</p>	<p>ASSESSMENT 2 - Biocultural values in an REF VIDEO DUE: Week 9 (30%)</p>
10	15 Oct	<p>L19 Caring for freshwater places</p> <p>L20 Caring for land based country</p>	<p>P10 Proposed (COVID dependent) Field trip: Balls Head</p>	<p>MODULE 3 Quiz Due: Tues 20 Oct 5pm (10%)</p>
<p>MODULE 4: Work in Environmental Management - Kerrie Tomkins</p>				
11	22 Oct	<p>L21 Types of Roles and Employability</p> <p>L22 Project Management and Leadership</p>	<p>P11 MASTERCLASS: Grant Writing workshop</p>	
12	29 Oct	<p>LIBRARY & CAREERS GUEST LECTURES</p> <p>L23 Career Literacy</p> <p>L24 Planning and application skills</p>	<p>P12 Preparing a job application and interview techniques</p>	
13	5 Nov	<p>L25 Workplace Ethics</p> <p>L26 Personal brand and online reputation</p>		<p>MODULE 4 Quiz Due: Tues 10 Nov 5pm (10%)</p> <p>ASSESSMENT 3 (Mock ET Grant EOJ) DUE: Week 13 (30%)</p>

Policies and Procedures

Macquarie University policies and procedures are accessible from [Policy Central \(https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central\)](https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central). Students should be aware of the following policies in particular with regard to Learning and Teaching:

- [Academic Appeals Policy](#)
- [Academic Integrity Policy](#)
- [Academic Progression Policy](#)
- [Assessment Policy](#)
- [Fitness to Practice Procedure](#)
- [Grade Appeal Policy](#)
- [Complaint Management Procedure for Students and Members of the Public](#)
- [Special Consideration Policy](#) (**Note: The Special Consideration Policy is effective from 4 December 2017 and replaces the Disruption to Studies Policy.**)

Students seeking more policy resources can visit the [Student Policy Gateway](https://students.mq.edu.au/support/study/student-policy-gateway) (<https://students.mq.edu.au/support/study/student-policy-gateway>). It is your one-stop-shop for the key policies you need to know about throughout your undergraduate student journey.

If you would like to see all the policies relevant to Learning and Teaching visit [Policy Central](http://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central) (<http://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central>).

Student Code of Conduct

Macquarie University students have a responsibility to be familiar with the Student Code of Conduct: <https://students.mq.edu.au/study/getting-started/student-conduct>

Results

Results published on platform other than [eStudent](#), (eg. iLearn, Coursera etc.) 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](#). For more information visit ask.mq.edu.au or if you are a Global MBA student contact globalmba.support@mq.edu.au

Student Support

Macquarie University provides a range of support services for students. For details, visit <http://students.mq.edu.au/support/>

Learning Skills

Learning Skills (mq.edu.au/learningskills) provides academic writing resources and study strategies to help you improve your marks and take control of your study.

- [Getting help with your assignment](#)
- [Workshops](#)
- [StudyWise](#)
- [Academic Integrity Module](#)

The Library provides online and face to face support to help you find and use relevant information resources.

- [Subject and Research Guides](#)
- [Ask a Librarian](#)

Student Services and Support

Students with a disability are encouraged to contact the [Disability Service](#) who can provide appropriate help with any issues that arise during their studies.

Student Enquiries

For all student enquiries, visit Student Connect at ask.mq.edu.au

If you are a Global MBA student contact globalmba.support@mq.edu.au

IT Help

For help with University computer systems and technology, visit http://www.mq.edu.au/about_us/offices_and_units/information_technology/help/.

When using the University's IT, you must adhere to the [Acceptable Use of IT Resources Policy](#). The policy applies to all who connect to the MQ network including students.

Changes from Previous Offering

In 2020, ENVS3462 has been modified in response to the COVID-19 pandemic. Lectures are online and we are offering online practicals. We are still endeavouring to run field based and face to face practicals; however please stay tuned to ilearn as the schedule may need to change pending University directives.