



Course Outline

MSCI0501

The Marine Environment

School of BEES

Faculty of Science

T2C, 2022

1. Staff

Position	Name	Email & contact details	Consultation times and locations
Course Convenor	Tracey Rogers	t.rogers@unsw.edu.au	By appointment
Lecturer	Tracey Rogers	t.rogers@unsw.edu.au	By appointment

2. Course information

Units of credit: 6

Pre-requisite(s): None

Teaching times and locations: This is a 4-week intensive short course, see course schedule (section 4) for class details.

<http://timetable.unsw.edu.au/2022/MSCI0501.html>

2.1 Course summary

This course covers aspects of both the physical and biological environments of the sea and their inter-relationships. It considers human impacts on the marine environments and how the principles and methods of science in general are used to predict and to solve the problems created by human activities.

The course includes discussion of:

- i. the marine environment and its physical, geological, chemical and biological characteristics and their interactions;
- ii. the sea as a source of human food with attention given to aspects of marine productivity, fisheries and mariculture, and

2.3 Course learning outcomes (CLO)

At the completion of this course you should be able to:

1. Understand and apply marine safety.
2. Discuss the importance of oceans and how life in the oceans shape the Earth and our climate.
3. Understand and describe the challenges facing life in the sea and the adaptations needed to live in the ocean.
4. Discuss contemporary marine issues, how human activities threaten life in the ocean and how we can play a part in the solution, including the main consequences climate change is having upon our oceans and its marine life.
5. Explain how marine resources are managed and restored for long-term resource security.
6. Describe the local Sydney marine environment and understand its threats.

3. Strategies and approaches to learning

3.1 Learning and teaching activities

This course is delivered in a blended format, made up of a mix of face-to-face field trips, workshops--

4. Course schedule and structure

Date	Activity	Title	Assessments
	<p>Mon - Thu 4 x Online lecture modules</p>	<p>Module 1 Anthropogenic threats to marine systems</p> <p>Module 2 The consequences of climate change</p> <p>Module 3 Balancing marine resources</p> <p>Module 4 Marine restoration</p>	<p>Modules include interactive questions and activities.</p>
<p>Week 1 15 - 19 Aug 2022</p>		<p>Workshop 1 Course and Marine Science in Society 'MarineFest' program introduction</p>	<p>Work done during Workshop 1</p>
	<p>Fri (10 am - 1 pm) 4 x In-person workshops</p>	<p>Workshop 2 Marine pollutants, plastics and dioxins</p> <p>Workshop 3 Managing sharks - Am I safe? Do we kill them, fence them, live with them?</p> <p>Workshop 4 'MarineFest' program and social media development.</p>	<p>Work done during Workshop 2, 3, 4</p>

Week 3 29 Aug - 2 Sep 2022	Mon - Thu 3 x Online lecture modules	Module 8 Sydney marine life Module 9 Beach safety and coastal processes Module 10 Why our oceans matter	Modules include interactive questions and activities.
	Fri (9 am - 12 pm) 2 x Field trips at Maroubra Beach	Workshop 8 Rocky shore field trip Workshop 9 Beach morphology and safety field trip	MarineFest report due. (5% of final mark).
Week 4 5 - 9 Sep 2022	Fri (10 am - 1 pm) Film Festival	Workshop 10 Marine Science in Society 'MarineFest' Film Festival	MarineFest student- made films due. (20% of final mark) End of social media program. (5% of final mark) Final exam. Multiple-choice in- person exam covering all modules and Workshops 2-3 and 5-9. (40% of final mark)

5. Assessment

5.1 Assessment tasks

Task	Weight	Due date	Submission	Feedback
Assessment 1 Moodle quizzes x 2	30%	Quiz 1 Week 1 Fri 19 Aug 2022 Quiz 2 Week 2 Fri 26 Aug 2022	Moodle	Immediate via Moodle, mark only
Assessment 2 Marine Science in Society 'MarineFest' Program	30%	Report Due Week 3 Fri 2 Sep 2022 (5%) Film Due Week 4 Fri 9 Sep 2022 (20%) Social Media Program Ends Week 4 Fri 9 Sep 2022 (5%)	In class	1 week after submission via Moodle, marks and comments
Assessment 3 Exam	40%	Week 4 Fri 9 Sep 2022	Moodle	Immediate, via Moodle, mark only

Further information

UNSW grading system: student.unsw.edu.au/grades

UNSW assessment policy: student.unsw.edu.au/assessment

5.2 Assessment criteria and standards

Moodle quizzes (30%)

Two Moodle quizzes, worth 15% each, will be completed during the Friday workshops in Weeks 1 and 2. These are low stakes assessments to check student understanding of the lectures and workshop material.

Marine Science in Society 'MarineFest' Film Festival (30%)

You will be forming groups of four people to investigate controversial marine issues. Throughout the course you will conduct an individual Social Media campaign using Twitter to highlight marine issues that you are personally interested in (5%). At the end of Week 3 you will submit a report that outlines the controversial topic under investigation by your group. This report will provide a clear statement of your topic, background information, conflicting opinions around the topic, and a list of reference material that you will use to produce your film (5%). As a group you will produce a 3-minute video which you will showcase at the end of Week 4 to the class and a panel of experts - The 'MarineFest' Film Festival. Your film will be marked by the experts and a People's Choice mark will be awarded by your peers (20%). This will assess material you have developed through the workshops.

Final Exam (40%)

The final exam is an assessment comprised of 80 multiple choice questions that are based on material presented in the online lecture modules and workshops. This exam will be in class in the last week of the course.

Marking

Grades will be posted on the course webpage available through Moodle.

5.3 Submission of assessment tasks

If you experience sickness, misadventure or other circumstances beyond your control that may impact your ability to complete/attend compulsory classes/fieldtrip/tests, you should request special consideration through <https://student.unsw.edu.au/special-consideration>. Please also e-mail the course convenor, as soon as possible. The School of BEES also has certified Mental Health First Aiders who can help in an emergency or help with accessing other university or external supports. and can help provide information regarding supports provided by the university and externally. <http://www.bees.unsw.edu.au/flourish-mentally>

Late assignments will be penalised at a rate of 10% per day unless accompanied by a medical certificate.

6. Academic integrity, referencing and plagiarism

Referencing is a way of acknowledging the sources of information that you use to research your assignments. You need to provide a reference whenever you draw on someone else's words, ideas or research. Not referencing other people's work can constitute plagiarism.

Further information about referencing styles can be located at student.unsw.edu.au/referencing

Academic integrity is fundamental to success at university. Academic integrity can be defined as a commitment to six fundamental values in academic pursuits: honesty, trust, fairness, respect, responsibility and courage. At UNSW, this means that your work must be your own, and others' ideas should be appropriately acknowledged. If you don't follow these rules, plagiarism may be detected in your work.

Further information about academic integrity and **plagiarism** can be located at:

- The *Current Students* site student.unsw.edu.au/plagiarism, and



Student complaint procedure	<p>In all cases you should first try to resolve any issues with the course convenor.</p> <p>If this is unsatisfactory, you should contact the School Student Ethics Officer (A/Prof Stephen Bonser, s.bonser@unsw.edu.au) or the Deputy Head of School (A/Prof Scott Mooney s.mooney@unsw.edu.au) who is the School's Grievance Officer and Designated Officer under the UNSW Plagiarism Procedure.</p> <p>UNSW has formal policies about the resolution of complaints that are available online for review (see https://student.unsw.edu.au/complaints).</p>		
	School contact	Faculty Contact	University contact
	<p>Dr S Mooney Deputy Head of School (Undergraduate Programs) s.mooney@unsw.edu.au Tel: 9385 8063</p>	<p>Dr Chris Tisdell Associate Dean (Education) cct@unsw.edu.au</p>	