



# Course Outline

**MSCI0501**

**The Marine Environment**

**School of BEES**

**Faculty of Science**

**T2C, 2022**

Course Convenor	Tracey Rogers	<a href="mailto:t.rogers@unsw.edu.au">t.rogers@unsw.edu.au</a>	By appointment
Lecturer	Tracey Rogers	<a href="mailto:t.rogers@unsw.edu.au">t.rogers@unsw.edu.au</a>	By appointment

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>

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

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

	4 x Online lecture modules	<p>Anthropogenic threats to marine systems</p> <p>The consequences of climate change</p> <p>Balancing marine resources</p> <p>Marine restoration</p>	<p>Modules include interactive questions and activities.</p>

15 - 19  
Aug 2022

Course and Marine Science in Society  
'MarineFest' program introduction

Work done during  
Workshop 1 will be  
Work done during  
Workshop 1 will be

4 x In-person  
workshops

Marine pollutants, plastics and dioxins

Managing sharks - Am I safe? Do we kill them,  
fence them, live with them?

'MarineFest' program and social media  
development.

29 Aug - 2 Sep 2022	3 x Online lecture modules	Sydney marine life  Beach safety and coastal processes  Why our oceans matter	Modules include interactive questions and activities.
	2 x Field trips at Maroubra Beach	Rocky shore field trip  Beach morphology and safety field trip	(5% of final mark).
5 - 9 Sep 2022	Film Festival	Marine Science in Society 'MarineFest' Film Festival	(20% of final mark)  (5% of final mark)  Multiple-choice in- person exam covering all modules and Workshops 2-3 and 5-9. (40% of final mark)

Moodle quizzes x 2	30%	<p>Week 1 Fri 19 Aug 2022</p> <p>Week 2 Fri 26 Aug 2022</p>	Moodle	Immediate via Moodle, mark only
Marine Science in Society 'MarineFest' Program	30%	<p>Due Week 3 Fri 2 Sep 2022 (5%)</p> <p>Due Week 4 Fri 9 Sep 2022 (20%)</p> <p>Ends Week 4 Fri 9 Sep 2022 (5%)</p>	In class	1 week after submission via Moodle, marks and comments
Exam	40%	Week 4 Fri 9 Sep 2022	Moodle	Immediate, via Moodle, mark only

UNSW grading system: [student.unsw.edu.au/grades](http://student.unsw.edu.au/grades)

UNSW assessment policy: [student.unsw.edu.au/assessment](http://student.unsw.edu.au/assessment)

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.

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.

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.

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

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.

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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](http://student.unsw.edu.au/referencing)

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 can be located at:

- The *Current Students* site [student.unsw.edu.au/plagiarism](http://student.unsw.edu.au/plagiarism), and





In all cases you should first try to resolve any issues with the course convenor.

If this is unsatisfactory, you should contact the School Student Ethics Officer (A/Prof Stephen Bonser, [s.bonser@unsw.edu.au](mailto:s.bonser@unsw.edu.au)) or the Deputy Head of School (A/Prof Scott Mooney [s.mooney@unsw.edu.au](mailto:s.mooney@unsw.edu.au)) who is the School's Grievance Officer and Designated Officer under the UNSW Plagiarism Procedure.

UNSW has formal policies about the resolution of complaints that are available online for review (see <https://student.unsw.edu.au/complaints>).

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