

ENS282 Coastal and Marine Ecology

School: School of Science, Technology and Engineering

2024 | Semester 1

UniSC Sunshine Coast
UniSC Moreton Bay

**BLENDED
LEARNING**

Most of your course is on campus but you may be able to do some components of this course online.

Please go to usc.edu.au for up to date information on the teaching sessions and campuses where this course is usually offered.

1. What is this course about?

1.1. Description

The oceans harbour a greater diversity of life than any other environmental realm. In this course you will learn about the diversity of marine ecosystems, the species inhabiting them, and the physical and chemical factors influencing marine ecosystems. We shall explore rocky shores, sandy beaches, estuaries, mangroves, salt marshes, seagrass, reefs and open-water ecosystems. We will emphasise the seminal contributions that marine ecology has made to the broader field of ecology, and teach you fundamental skills in the scientific investigation of marine and coastal ecosystems.

1.2. How will this course be delivered?

ACTIVITY	HOURS	BEGINNING WEEK	FREQUENCY
BLENDED LEARNING			
Learning materials – Learning materials that provide fundamental knowledge about how the ocean works and how coastal ecosystems are structured and function. Learning materials typically include online videos of varying length, readings and quizzes.	1hr	Week 1	13 times
Tutorial/Workshop 1 – On-campus workshops support learning materials, introduce the content to be covered on field trips and support students in completing the major assessments. Weeks 1, 2, 3, 6, 9, 10 and 13 are 2 hour workshops only, with the remainder being 3 hours. No workshops in weeks 4 and 5 when field trips occur.	3hrs	Week 1	11 times
Fieldwork – Fieldtrips support key concepts presented in both the learning materials and tutorials, and provide opportunities for students to apply their skills in a field setting. Occurs typically in weeks 4 and 5 (dependent on tide times), with final dates confirmed in class in week 1.	7hrs	Week 4	2 times

1.3. Course Topics

Ocean currents, winds and tides, estuaries, seagrasses, mangroves, reefs, seaweeds and kelps, climate change impacts, marine conservation ecology.

2. What level is this course?

200 Level (Developing)

Building on and expanding the scope of introductory knowledge and skills, developing breadth or depth and applying knowledge and skills in a new context. May require pre-requisites where discipline specific introductory knowledge or skills is necessary. Normally, undertaken in the second or third full-time year of an undergraduate programs.

3. What is the unit value of this course?

12 units

4. How does this course contribute to my learning?

COURSE LEARNING OUTCOMES	GRADUATE QUALITIES
On successful completion of this course, you should be able to...	Completing these tasks successfully will contribute to you becoming...
1 Communicate effectively and professionally to informed audiences.	Empowered Engaged
2 Demonstrate and apply knowledge of major marine ecosystems and the forces that shape marine biodiversity.	Knowledgeable
3 Critically analyse and evaluate field data to investigate basic ecological patterns in coastal ecosystems.	Creative and critical thinker Sustainability-focused
4 Work as a group to communicate complex scientific principles simply	Empowered Ethical Engaged

5. Am I eligible to enrol in this course?

Refer to the [UniSC Glossary of terms](#) for definitions of “pre-requisites, co-requisites and anti-requisites”.

5.1. Pre-requisites

SCI110 or SCI102 or ANM104

5.2. Co-requisites

Not applicable

5.3. Anti-requisites

Not applicable

5.4. Specific assumed prior knowledge and skills (where applicable)

Not applicable

6. How am I going to be assessed?

6.1. Grading Scale

Standard Grading (GRD)

High Distinction (HD), Distinction (DN), Credit (CR), Pass (PS), Fail (FL).

6.2. Details of early feedback on progress

Online quizzes will be available throughout the semester in class, whereby students can submit answers to questions and receive formative feedback on current understanding of the material.

6.3. Assessment tasks

DELIVERY MODE	TASK NO.	ASSESSMENT PRODUCT	INDIVIDUAL OR GROUP	WEIGHTING %	WHAT IS THE DURATION / LENGTH?	WHEN SHOULD I SUBMIT?	WHERE SHOULD I SUBMIT IT?
All	1	Quiz/zes	Individual	0%	Up to 20 questions.	Refer to Format	In Class
All	2	Written Piece	Group	25%	1000 words	Week 6	Online Assignment Submission with plagiarism check
All	3	Oral	Group	35%	15 minutes (12 minute presentation, plus 3 minutes of questions)	Week 12	In Class
All	4	Examination - Centrally Scheduled	Individual	40%	2 hours	Exam Period	Online Submission

All - Assessment Task 1: Weekly Quiz

GOAL:	Revise the weekly content and prepare for the final exam.	
PRODUCT:	Quiz/zes	
FORMAT:	Online quizzes (likely Kahoot) weeks 2-9.	
CRITERIA:	No.	Learning Outcome assessed
	1	Correctly answering a series of multiple choice questions relating to the learning materials 2

All - Assessment Task 2: Group data submission

GOAL:	To demonstrate ability to work as a group to collect and collate marine ecology field data.	
PRODUCT:	Written Piece	
FORMAT:	Field performance and formatted excel document (per template) submitted as a group.	
CRITERIA:	No.	Learning Outcome assessed
	1	Demonstrate your capacity to collect and collate marine ecology field data 3
	2	Work as a group to collect and collate marine ecology field data 1 3 4

All - Assessment Task 3: Group presentation

GOAL:	To work as a group, and demonstrate knowledge and basic analytical skills in the scientific investigation of coastal and marine ecosystems.	
PRODUCT:	Oral	
FORMAT:	A concise 15 minute presentation (12 minute presentation, plus 3 minutes of questions) presented as a group using PowerPoint slides, that summarises the rationale, methods and key results of the field trip(s), including tests of ecological hypotheses based on analyses of data collected by students, and contextualisation of the findings with respect to species biology and conservation.	

CRITERIA:	No.	Learning Outcome assessed
	1	Demonstrate your capacity to write a concise and effective scientific report 1 3
	2	Demonstrate your capacity to analyse marine ecology field data and to produce effective scientific figures and tables 1 3
	3	Demonstrate your capacity to identify, synthesise and interpret scientific journal articles 2
	4	Work as a group to present complex scientific concepts simply 4

All - Assessment Task 4: Final examination

GOAL:	To demonstrate knowledge of marine and coastal ecology as taught in the course.						
PRODUCT:	Examination - Centrally Scheduled						
FORMAT:	A two (2) hour online exam						
CRITERIA:	<table border="1"> <thead> <tr> <th>No.</th> <th>Learning Outcome assessed</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Demonstrate your knowledge of marine and coastal ecology 2</td> </tr> <tr> <td>2</td> <td>Apply knowledge from learning materials, tutorials, field trips and readings to solve unseen problems 2 3</td> </tr> </tbody> </table>	No.	Learning Outcome assessed	1	Demonstrate your knowledge of marine and coastal ecology 2	2	Apply knowledge from learning materials, tutorials, field trips and readings to solve unseen problems 2 3
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1	Demonstrate your knowledge of marine and coastal ecology 2						
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7. Directed study hours

A 12-unit course will have total of 150 learning hours which will include directed study hours (including online if required), self-directed learning and completion of assessable tasks. Student workload is calculated at 12.5 learning hours per one unit.

8. What resources do I need to undertake this course?

Please note: Course information, including specific information of recommended readings, learning activities, resources, weekly readings, etc. are available on the course Canvas site– Please log in as soon as possible.

8.1. Prescribed text(s) or course reader

There are no required/recommended resources for this course.

8.2. Specific requirements

Nil

9. How are risks managed in this course?

Risk assessments have been performed for all field activities and low to moderate levels of health and safety risk exists. Moderate risks may include working in an Australian bush setting, working with people, working outside normal office hours for example. It is your responsibility to review course material, search online, discuss with lecturers and peers and understand the health and safety risks associated with your specific course of study and to familiarise yourself with the University's general health and safety principles by reviewing the [online induction training for students](#), and following the instructions of the University staff.

10. What administrative information is relevant to this course?

10.1. Assessment: Academic Integrity

Academic integrity is the ethical standard of university participation. It ensures that students graduate as a result of proving they are competent in their discipline. This is integral in maintaining the value of academic qualifications. Each industry has expectations and standards of the skills and knowledge within that discipline and these are reflected in assessment.

Academic integrity means that you do not engage in any activity that is considered to be academic fraud; including plagiarism, collusion or outsourcing any part of any assessment item to any other person. You are expected to be honest and ethical by completing all work yourself and indicating in your work which ideas and information were developed by you and which were taken from others. You cannot provide your assessment work to others. You are also expected to provide evidence of wide and critical reading, usually by using appropriate academic references.

In order to minimise incidents of academic fraud, this course may require that some of its assessment tasks, when submitted to Canvas, are electronically checked through Turnitin. This software allows for text comparisons to be made between your submitted assessment item and all other work to which Turnitin has access.

10.2. Assessment: Additional Requirements

Eligibility for Supplementary Assessment

Your eligibility for supplementary assessment in a course is dependent of the following conditions applying:

The final mark is in the percentage range 47% to 49.4%

The course is graded using the Standard Grading scale

You have not failed an assessment task in the course due to academic misconduct

10.3. Assessment: Submission penalties

Late submission of assessment tasks may be penalised at the following maximum rate:

- 5% (of the assessment task's identified value) per day for the first two days from the date identified as the due date for the assessment task.

- 10% (of the assessment task's identified value) for the third day - 20% (of the assessment task's identified value) for the fourth day and subsequent days up to and including seven days from the date identified as the due date for the assessment task.

- A result of zero is awarded for an assessment task submitted after seven days from the date identified as the due date for the assessment task. Weekdays and weekends are included in the calculation of days late. To request an extension you must contact your course coordinator to negotiate an outcome.

10.4. SafeUniSC

UniSC is committed to a culture of respect and providing a safe and supportive environment for all members of our community. For immediate assistance on campus contact SafeUniSC by phone: [07 5430 1168](tel:0754301168) or using the [SafeZone](#) app. For general enquires contact the SafeUniSC team by phone [07 5456 3864](tel:0754563864) or email safe@usc.edu.au.

The SafeUniSC Specialist Service is a Student Wellbeing service that provides free and confidential support to students who may have experienced or observed behaviour that could cause fear, offence or trauma. To contact the service call [07 5430 1226](tel:0754301226) or email studentwellbeing@usc.edu.au.

10.5. Study help

For help with course-specific advice, for example what information to include in your assessment, you should first contact your tutor, then your course coordinator, if needed.

If you require additional assistance, the Learning Advisers are trained professionals who are ready to help you develop a wide range of academic skills. Visit the [Learning Advisers](#) web page for more information, or contact Student Central for further assistance: +61 7 5430 2890 or studentcentral@usc.edu.au.

10.6. Wellbeing Services

Student Wellbeing provide free and confidential counselling on a wide range of personal, academic, social and psychological matters, to foster positive mental health and wellbeing for your academic success.

To book a confidential appointment go to [Student Hub](#), email studentwellbeing@usc.edu.au or call 07 5430 1226.

10.7. AccessAbility Services

Ability Advisers ensure equal access to all aspects of university life. If your studies are affected by a disability, learning disorder mental health issue, injury or illness, or you are a primary carer for someone with a disability or who is considered frail and aged, [AccessAbility Services](#) can provide access to appropriate reasonable adjustments and practical advice about the support and facilities available to you throughout the University.

To book a confidential appointment go to [Student Hub](#), email AccessAbility@usc.edu.au or call 07 5430 2890.

10.8. Links to relevant University policy and procedures

For more information on Academic Learning & Teaching categories including:

- Assessment: Courses and Coursework Programs
- Review of Assessment and Final Grades
- Supplementary Assessment
- Central Examinations
- Deferred Examinations
- Student Conduct
- Students with a Disability

For more information, visit <https://www.usc.edu.au/explore/policies-and-procedures#academic-learning-and-teaching>

10.9. Student Charter

UniSC is committed to excellence in teaching, research and engagement in an environment that is inclusive, inspiring, safe and respectful. The [Student Charter](#) sets out what students can expect from the University, and what in turn is expected of students, to achieve these outcomes.

10.10. General Enquiries

In person:

- **UniSC Sunshine Coast** - Student Central, Ground Floor, Building C, 90 Sippy Downs Drive, Sippy Downs
- **UniSC Moreton Bay** - Service Centre, Ground Floor, Foundation Building, Gympie Road, Petrie
- **UniSC SouthBank** - Student Central, Building A4 (SW1), 52 Merivale Street, South Brisbane
- **UniSC Gympie** - Student Central, 71 Cartwright Road, Gympie
- **UniSC Fraser Coast** - Student Central, Student Central, Building A, 161 Old Maryborough Rd, Hervey Bay
- **UniSC Caboolture** - Student Central, Level 1 Building J, Cnr Manley and Tallon Street, Caboolture

Tel: +61 7 5430 2890

Email: studentcentral@usc.edu.au