UNSW Course Outline

GEOS3921 Coastal Resource Management - 2024

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General Course Information

Course Code : GEOS3921
Year : 2024
Term : Term 3
Teaching Period : T3
Is a multi-term course? : No
Faculty : Faculty of Science
Academic Unit : School of Biological, Earth and Environmental Sciences
Delivery Mode : In Person
Delivery Format : Standard
Delivery Location : Kensington
Campus : Sydney
Study Level : Undergraduate
Units of Credit : 6

Useful Links

Handbook Class Timetable

Course Details & Outcomes

Course Description

This course focuses on coastal resource assessment and management and builds skills in science and policy-based solutions for coastal problems and issues. The course is designed for students aspiring to pursue a career as an environmental manager, environmental consultant or

applied scientist. Case studies and topics on Australian coastal zone policy, coastal erosion and conservation, soil and water acidification, global aquaculture issues and management, causes of fish kills and fish disease outbreaks, estuary management, coastal water resource management, recreational and commercial fisheries and coastal wetlands are used to understand how science informs management. The course considers Australian and global perspectives on current and emerging coastal resource management issues. The course includes lectures, tutorials and a one-day field trip. Assignments build skills in writing ministerial advisories, management briefs, funding proposal writing, and production of a professional standard coastal management plan or management communication tool. Students also participate in a mock workshop to develop stakeholder engagement skills.

Course Aims

The overall aim of the course is to build professional skills related to science and community based coastal management. The lectures focus on describing current and emerging coastal issues and how they are managed through science, policy, stakeholder engagement and informal and formal partnerships between government, industries and community groups. The assignments and field trip will provide practical experience in coastal management methods that are aligned with employer expectations of new graduates.

Course Learning Outcomes

Course Learning Outcomes
CLO1 : Describe processes that affect coastal degradation, including human impacts on coastal areas to develop strategies to manage or remediate negative environmental, social and economic impacts.
CLO2 : Review coastal policy, management frameworks, and approaches to coastal resource management to generate advice for stakeholders and leaders.
CLO3 : Analyse and critique the broad and emerging issues, particular current and challenging coastal resource issues affecting society, the environment and economy.
CLO4 : Describe and analyse the roles of geography, environmental science, social science and engineering in interdisciplinary coastal resource management.
CLO5 : Prepare a professional coastal resource management plan, applying an interdisciplinary approach.

Course Learning Outcomes	Assessment Item
CLO1 : Describe processes that affect coastal degradation, including human impacts on coastal areas to develop strategies to manage or remediate negative environmental, social and economic impacts.	• SWOT analysis • Briefing note
CLO2 : Review coastal policy, management frameworks, and approaches to coastal resource management to generate advice for stakeholders and leaders.	• Round table discussion • Major project • SWOT analysis
CLO3 : Analyse and critique the broad and emerging issues, particular current and challenging coastal resource issues affecting society, the environment and economy.	• Briefing note • Round table discussion • Major project
CLO4 : Describe and analyse the roles of geography, environmental science, social science and engineering in interdisciplinary coastal resource management.	• SWOT analysis • Briefing note • Round table discussion • Major project
CLO5 : Prepare a professional coastal resource management plan, applying an interdisciplinary approach.	• Round table discussion • Major project

Learning and Teaching Technologies

Moodle - Learning Management System | Blackboard Collaborate | Microsoft Teams

Learning and Teaching in this course

The material in this course is taught through a mixture of lectures, tutorials, field classes and participation in a round table discussion. This mixture of teaching methodologies will be employed to ensure that there are various avenues for students to interact, communicate and learn at various levels of the course.

The lecture content for this course is designed to enable students to critically study and understand current and emerging issues in coastal resource management. The majority of the course will be taught with a geographical perspective in mind. By providing different geographical perspectives and approaches it is hoped that students will develop a greater understanding of the connections between coastal physical processes and human dimensions to coastal protection and management. This course will draw on case studies in both Australia and in the Asia Pacific region to provide students with an additional level of understanding of such relationships and connections.

Additional Course Information

Please note that Tutorials do not run every week. The first Tutorial is in Week 2. Tutorials run in Weeks 2,3,5,8 and 10. Please note these weeks in your diary. There is a field trip to La Perouse during your tutorial time in Week 3, provided the weather is fine. If the weather is not suitable, we will make a course announcement and likely change the field trip to Week 4.

There is a one-off Career Advice Seminar in Week 10. This seminar is online and recorded. If you have a clash, please contact Jes. You will not be penalised for non-attendance if you have a clash.

Assessments

Assessment Structure

Assessment Item	Weight	Relevant Dates
SWOT analysis Assessment Format: Individual Short Extension: Yes (3 days)	10%	Start Date: Not Applicable Due Date: 13/09/2024 11:59 PM
Briefing note Assessment Format: Individual Short Extension: Yes (3 days)	30%	Due Date: 20/09/2024 12:00 AM
Round table discussion Assessment Format: Individual Short Extension: Yes (3 days)	10%	Due Date: Not Applicable
Major project Assessment Format: Individual Short Extension: Yes (3 days)	50%	Start Date: Not Applicable Due Date: Not Applicable

Assessment Details

SWOT analysis

Assessment Overview

You will complete a brief SWOT analysis of a coastal industry to test your ability to review literature and to categorise Strengths, Weakness, Opportunities and Threats. Your submission will be <800 words and is due in Week 1.

You will use your SWOT Analysis report in a tutorial in Week 2 to compare your findings with others, and build a more comprehensive SWOT Analysis in class.

Feedback will be provided in class and via Moodle.

Course Learning Outcomes

- CLO1 : Describe processes that affect coastal degradation, including human impacts on coastal areas to develop strategies to manage or remediate negative environmental, social and economic impacts.
- CLO2 : Review coastal policy, management frameworks, and approaches to coastal resource management to generate advice for stakeholders and leaders.
- CLO4 : Describe and analyse the roles of geography, environmental science, social science and engineering in interdisciplinary coastal resource management.

Detailed Assessment Description

A SWOT Analysis covers the Strengths, Weaknesses (these are both internal factors) and the Opportunies and Threats (these are external) that relate to an industry, project, program, agency

etc. Do not go too deep into this because it is only 800 words and intended to prepare you for the week 2 tutorial. Use your time in the freed up Week 1 tutorial class to wrap this assignment up.

Assessment Length

800 words max

Submission notes

Please ensure you have not plagiarised before submitting

Assessment information

You are not permitted to use generative AI to generate the content. You are permitted to use AI editing tools, such as Grammarly.

Assignment submission Turnitin type

This assignment is submitted through Turnitin and students can see Turnitin similarity reports.

Generative AI Permission Level

Simple Editing Assistance

In completing this assessment, you are permitted to use standard editing and referencing functions in the software you use to complete your assessment. These functions are described below. You must not use any functions that generate or paraphrase passages of text or other media, whether based on your own work or not.
If your Convenor has concerns that your submission contains passages of AI-generated text or media, you may be asked to account for your work. If you are unable to satisfactorily demonstrate your understanding of your submission you may be referred to UNSW Conduct & Integrity Office for investigation for academic misconduct and possible penalties.
For more information on Generative AI and permitted use please see here.

Briefing note

Assessment Overview

In Week 2, you will submit a 1000-word brief worth 15% for the Week 3 field trip. You will summarise the environmental heritage of the site, the issues for discussion, and the management context of each site. You will be assessed on the structure, research effort, accuracy of information, and clarity and conciseness of written expression.

In Week 4 you will submit a brief for a mock stakeholder workshop that is worth 15%. The brief is

for a specific stakeholder role that you will fulfill in the Week 5 stakeholder workshop.

Feedback will be provided in class and via Moodle.

Course Learning Outcomes

- CLO1 : Describe processes that affect coastal degradation, including human impacts on coastal areas to develop strategies to manage or remediate negative environmental, social and economic impacts.
- CLO3 : Analyse and critique the broad and emerging issues, particular current and challenging coastal resource issues affecting society, the environment and economy.
- CLO4 : Describe and analyse the roles of geography, environmental science, social science and engineering in interdisciplinary coastal resource management.

Detailed Assessment Description

Please note that this Assessment is made up of two activities. The first briefing note is for the La Perouse Field trip (Week 2 for the brief, and Week 3 for the fied trip). The second briefing note is due in Week 4 and is the preparation brief for the Round Table tutorial in Week 5.

Assessment Length

maximum of 1000 words for each briefing note

Submission notes

See handout for Due date for each brief

Assessment information

You are not permitted to use generative AI to write these briefs.

Assignment submission Turnitin type

This assignment is submitted through Turnitin and students can see Turnitin similarity reports.

Generative AI Permission Level

Simple Editing Assistance

In completing this assessment, you are permitted to use standard editing and referencing functions in the software you use to complete your assessment. These functions are described below. You must not use any functions that generate or paraphrase passages of text or other media, whether based on your own work or not.
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For more information on Generative AI and permitted use please see here.

Please only use grammar editing AI software - do not generate your core content from AI.

Round table discussion

Assessment Overview

In Week 5, you will participate in a mock workshop and role play a stakeholder. You will be expected to research your assigned stakeholder's likely perspective on a coastal development and contribute to a roundtable style discussion with a developer, government agency staff and other stakeholder. Students are assessed on their level of preparation, ability to engage with other stakeholders and their knowledge of the issues. Feedback will be provided in class and via Moodle within two weeks.

Course Learning Outcomes

- CLO2 : Review coastal policy, management frameworks, and approaches to coastal resource management to generate advice for stakeholders and leaders.
- CLO3 : Analyse and critique the broad and emerging issues, particular current and challenging coastal resource issues affecting society, the environment and economy.
- CLO4 : Describe and analyse the roles of geography, environmental science, social science and engineering in interdisciplinary coastal resource management.
- CLO5 : Prepare a professional coastal resource management plan, applying an interdisciplinary approach.

Detailed Assessment Description

Students are encouraged to speak in class. We will take into consideration the type of roles, knowing that some roles might not require as much interaction and contribution as others. Adjustments are made according to roles.

Assessment Length

NA

Submission notes

You are graded on your contribution

Assessment information

Please come to this tutorial class prepared. You are encouraged to work with people in similar roles.

Assignment submission Turnitin type

Not Applicable

Generative AI Permission Level

No Assistance

This assessment is designed for you to complete without the use of any generative AI. You are not permitted to use any generative AI tools, software or service to search for or generate information or answers.
For more information on Generative AI and permitted use please see here.

Major project

Assessment Overview

You will research and choose a coastal resource management issue for your major project.

You will complete a funding proposal for the first component of the project. The funding proposal is due in Week 7 and is worth 20%.
You will complete either a management plan or communication tool based on the funding proposal. This is due in Week 10 and is worth 25%.

You will give a 3-5 minute presentation in Week 10 on your major project to a mock panel of stakeholders. The presentation contributes 5% to your overall project mark.

Assignments will be assessed upon clear articulation of management issues, accuracy of science content, identification of appropriate management/ communication strategies, and clear description of management actions/effective creative use of communication tool.

Feedback will be provided in class and via Moodle at each stage of the project.

Course Learning Outcomes

- CLO2 : Review coastal policy, management frameworks, and approaches to coastal resource management to generate advice for stakeholders and leaders.
- CLO3 : Analyse and critique the broad and emerging issues, particular current and challenging coastal resource issues affecting society, the environment and economy.
- CLO4 : Describe and analyse the roles of geography, environmental science, social science and engineering in interdisciplinary coastal resource management.
- CLO5 : Prepare a professional coastal resource management plan, applying an interdisciplinary approach.

Detailed Assessment Description

Please note that Assessment 4 has 3 components:

1. Funding Proposal worth 20%
2. A management plan or communication tool worth 25%
3. Presentation to class in Week 10 worth 5%

Students who choose to do a communication tool must run the idea past Jes Sammut. He will advise on the length of an accompanying report. Please do this early in the course.

Assessment Length

See handout for each component

Submission notes

See handout for the submission date for each component

Assessment information

Please do not use generative AI to write the proposal and management plan/communication tool. We do allow the use of grammar checking and spelling software.

Assignment submission Turnitin type

This assignment is submitted through Turnitin and students can see Turnitin similarity reports.

Generative AI Permission Level

Simple Editing Assistance

In completing this assessment, you are permitted to use standard editing and referencing functions in the software you use to complete your assessment. These functions are described below. You must not use any functions that generate or paraphrase passages of text or other media, whether based on your own work or not.
If your Convenor has concerns that your submission contains passages of AI-generated text or media, you may be asked to account for your work. If you are unable to satisfactorily demonstrate your understanding of your submission you may be referred to UNSW Conduct & Integrity Office for investigation for academic misconduct and possible penalties.
For more information on Generative AI and permitted use please see here.

Spellchecking and grammar checking software can be used, but nothing that generates content. You may also use referencing software such as Endnote etc.

General Assessment Information

We recommend the Harvard referencing systems. Please also read the UNSW policies on plagiarism before you start an assignment.

In the Week 1 recorded lecture, Jes will give an overview of each assignment and what is expected. During each tutorial, there will be approximately 10 minutes dedicated to answering class questions on the assessments. Students are welcome to contact Jes or Grace to discuss their assignments. We will give tips in class, but we encourage students to contact us if they need more specific advise or if they feel they are struggling. We are eager to help, so please reach out. Also, use the forum in Moodle to ask questions that other students might be able to answer.

Grading Basis

Standard

Requirements to pass course

The pass mark for this course is 50%

Course Schedule

Teaching Week/Module	Activity Type	Content
Week 1 : 9 September - 15 September	Lecture	Week 1 Lecture - Part A: Introduction and course overview; Part B: Estuary Classification Precorded lecture available in Moodle.
	Assessment	SWOT Aanalysis Assignment - 10%. Due at Midnight on Friday 13 September (end of Week 1)
Week 2 : 16 September - 22 September	Lecture	Week 2 Lecture: Dune and Beach Management Precorded lecture available in Moodle
	Assessment	La Perouse Briefing note worth 15%; Due on Friday, 19 September at 11:59 pm.
	Tutorial	SWOT Analysis Tutorial - face-to-face class.
Week 3 : 23 September - 29 September	Lecture	CASE STUDY LECTURE: Acid Sulfate Soils Precorded lecture available on Moodle
	Fieldwork	La Perouse Field Trip - please check the weather and course announcements; if there are storms or heavy rain, we will postpone this trip. The field trip is during your tutorial.
Week 4 : 30 September - 6 October	Lecture	Week 4 Lecture on Coastal resource conflicts, and the role of science and government. Pre-recorded lecture available on Moodle
	Assessment	Roundtable Brief - This assessment is worth 15%. Please submit by 11:59 pm on 4 October (End of Week 4)
Week 5 : 7 October - 13 October	Lecture	Week 5 Lecture: CASE STUDY - aquaculture production Precorded lecture available on Moodle
	Tutorial	Stakeholder Workshop/Environmental Roundtable - run in your tutorial class.
	Assessment	Your contributions to the roundtable/stakeholder workshop will be assessed (10%) during the Week 5 tutorial.
Week 6 : 14 October - 20 October	Other	FLEXI WEEK - NO CLASSES and NO WORK DUE FOR SUBMISSION
Week 7 : 21 October - 27 October	Lecture	Week 7 Lecture: Marine Parks, Policy and Science Precorded lecture available on Moodle.
	Assessment	Major Project Funding Proposal is due by 11:59 pm on 25 October. Please use Turnitin Link.
Week 8 : 28 October - 3 November	Lecture	Week 8 Lecture: Coastal Vegetation and Wetlands Pre-recorded lecture available on Moodle.
	Tutorial	This tutorial will involve mixed activities. We will discuss content with the class in Week 2. This is also potentially a spare tutorial if we cannot run the field trip in Week 3 or 4 (bad weather).
Week 9 : 4 November - 10 November	Lecture	Week 9 Lecture: Paradigms of Coastal Management Pre-recorded and available on Moodle.
Week 10 : 11 November - 17 November	Lecture	Week 10 Lecture - Recreational and Commercial Fishing Precorded lecture available on Moodle.
	Tutorial	Major Project Presentations in tutorial class (worth 5% of the Assessment 4 total)
	Assessment	MAJOR PROJECT or COMMS TOOL due - Friday 15 November at 11:59.

Attendance Requirements

Students are strongly encouraged to attend all classes and review lecture recordings.

General Schedule Information

The course schedule covers your lectures, tutorials and assignment due dates. Please note that pre-recorded lectures will be available each week. but Jes will endeavour to record all his lectures

in the first 2 weeks of the course to help students seek out content they might consider helpful for their assignments. Jes will make a course announcement every time he loads a lecture.

Remember that tutorials are not run each week. Use the time to prepare for the roundtable in Week 5 and to work on your major project - it is worth 50%!

If you are ever confused, contact Jes or Grace. If you spot a typo or a clash of information, contact Jes and Grace so we can fix it.

Late work will be penalised unless you have sought Special Consideration. You are encouraged to let Jes and Grace know if you are going to miss a tutorial and go through Special Consideration processes to avoid being penalised.

Course Resources

Prescribed Resources

No textbooks are presrcribed for the course.

Recommended Resources

Students should explore online resources available from the NSW DPI and NSW DPIE.

The lecture content is available on the UNSW Moodle course pages. Students enrolled in GEOS 3921 will automatically have access to the Moodle resources for this course. See recommended readings in lecture slide files. Additional readings will be recommended throughout the course.

Additional Costs

NA

Course Evaluation and Development

We will gather feedback from you at the end of each tutorial class so that we can consider your ideas on how to improve the course during delivery. However, this course is merging woth another, so any feedback will be incorporated into the design of the new course in 2025. We also take on board the previous years' feedback from MyExperience surveys and encourage you to provide sensible and constructive feedback towards the end of the course. The information from the formal and informal feedback is evaulated by the teaching team, and appropriate adjustments or changes are made. We endeavour to make changes that do not disadvantage anyone. Equitable principles are applied to our decision to change course delivery.

Staff Details

Position	Name	Email	Location	Phone	Availability	Equitable Learning Services Contact	Primary Contact
Convenor	Jes Sammut		Room 5113, E26	0403154863	by appointment, or immediately after a tutorial	Yes	Yes
Head tutor	Grace Nye-Butler			tba	by appointment only	No	No

Other Useful Information

Academic Information

Upon your enrolment at UNSW, you share responsibility with us for maintaining a safe, harmonious and tolerant University environment.

You are required to:

- Comply with the University's conditions of enrolment.
- Act responsibly, ethically, safely and with integrity.
- Observe standards of equity and respect in dealing with every member of the UNSW community.
- Engage in lawful behaviour.
- Use and care for University resources in a responsible and appropriate manner.
- Maintain the University's reputation and good standing.

For more information, visit the UNSW Student Code of Conduct Website.

Academic Honesty and Plagarism

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 https://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, plagiarism and the use of AI in assessments can be located at:

- The Current Students site,
- The ELISE training site, and
- The Use of AI for assessments site.

The Student Conduct and Integrity Unit provides further resources to assist you to understand your conduct obligations as a student: https://student.unsw.edu.au/conduct

Submission of Assessment Tasks

Penalty for Late Submissions

UNSW has a standard late submission penalty of:

- 5% per day,
- for all assessments where a penalty applies,
- capped at five days (120 hours) from the assessment deadline, after which a student cannot submit an assessment, and
- no permitted variation.

Any variations to the above will be explicitly stated in the Course Outline for a given course or assessment task.

Students are expected to manage their time to meet deadlines and to request extensions as early as possible before the deadline.

Special Consideration

If circumstances prevent you from attending/completing an assessment task, you must officially apply for special consideration, usually within 3 days of the sitting date/due date. You can apply by logging onto myUNSW and following the link in the My Student Profile Tab. Medical documentation or other documentation explaining your absence must be submitted with your application. Once your application has been assessed, you will be contacted via your student email address to be advised of the official outcome and any actions that need to be taken from there. For more information about special consideration, please visit: https://student.unsw.edu.au/special-consideration

Important note: UNSW has a "fit to sit/submit" rule, which means that if you sit an exam or submit a piece of assessment, you are declaring yourself fit to do so and cannot later apply for Special Consideration. This is to ensure that if you feel unwell or are faced with significant

circumstances beyond your control that affect your ability to study, you do not sit an examination or submit an assessment that does not reflect your best performance. Instead, you should apply for Special Consideration as soon as you realise you are not well enough or are otherwise unable to sit or submit an assessment.

Faculty-specific Information

Additional support for students

- The Current Students Gateway
- Student Support
- Academic Skills and Support
- Student Wellbeing, Health and Safety
- Equitable Learning Services
- UNSW IT Service Centre
- Science EDI Student Initiatives, Offerings and Guidelines