Module code: MOD006141	Version: 5 Date Amended: 22/Apr/2022

1. Module Title

Current Topics in Marine Ecology

2a. Module Leader

Dannielle Green

2b. School

School of Life Sciences

2c. Faculty

Faculty of Science and Engineering

3a. Level

6

3b. Module Type

Standard (fine graded)

4a. Credits

15

4b. Study Hours

150

5. Restrictions

Type	Module Code	Module Name	Condition
Co-requisites:	None		
Exclusions:	None		
Courses to which this module is restricted:			

LEARNING, TEACHING AND ASSESSMENT INFORMATION

6a. Module Description

With expanding human population, the marine environment is increasingly under threat from a range of anthropogenic and natural disturbances. At the same time it provides vital ecosystem services that sustain human life. Finding a balance between economic growth and conservation is a challenge for marine scientists that requires evaluation of the needs and perspectives of key stakeholders and the ability to effectively communicate scientific information to each of these audiences. We will explore some of the most cutting edge contemporary environmental challenges and technological developments in marine science, including resource exploitation, energy generation and climate change. You will have the opportunity to hone your practical skills including research, data-handling and analysis by recording, collecting and analysing data from marine environments using a variety of software. This module is designed to help prepare you for employment in the marine sector by focusing on essential key skills required for employment in a range of marine science jobs and to help you develop an awareness of current issues and key economic developments in marine science. Current Topics in Marine Ecology will build on the knowledge and skills that you have obtained previously.

6b. Outline Content

Current topics as relevant at the time of delivery, including:

- Marine economic resources and ecosystem services targeted for exploitation.
- Anthropogenic impacts on marine ecosystems; key conservation issues and approaches to mitigation.
- Generation and manipulation of biotic and abiotic data using a range of relevant software.

6c. Key Texts/Literature

The reading list to support this module is available at: https://readinglists.aru.ac.uk/

6d. Specialist Learning Resources

Computer rooms, online databases.

7. Learning Outcomes (threshold standards)		
No.	Type	On successful completion of this module the student will be expected to be able to:
1	Knowledge and Understanding	Evaluate the key current topics of economic, ecological and conservation importance in marine science
2	Knowledge and Understanding	Appraise how marine environments and communities are or may be modified by both natural and anthropogenic change.
3	Intellectual, practical, affective and transferrable skills	Collect, interpret and integrate a range of abiotic and biotic data.
4	Intellectual, practical, affective and transferrable skills	Present interpreted/ integrated data and discuss them in the wider context to academic and general audiences.

8a. Module Occurrence to which this MDF Refers

Year	Occurrence	Period	Location	Mode of Delivery
2025/6	ZZF	Template For Face To Face Learning Delivery		Face to Face

8b. Learning Activities for the above Module Occurrence

Learning Activities	Hours	Learning Outcomes	Details of Duration, frequency and other comments
Lectures	18	1,2 & 4	6 x 3 hrs lectures/active learning
Other teacher managed learning	18	3 & 4	6 x 3 hrs computer practicals
Student managed learning	114	1-4	Background reading, online activities, preparation for lectures and practicals, and completion of assessments
TOTAL:	150		

9. Assessment for the above Module Occurrence

Assessment No.	Assessment Method	Learning Outcomes	Weighting (%)	Fine Grade or Pass/Fail	Qualifying Mark (%)
010	Coursework	1-2 & 4	60 (%)	Fine Grade	30 (%)

1500 word coursework

Assessment No.	Assessment Method	Learning Outcomes	Weighting (%)	Fine Grade or Pass/Fail	Qualifying Mark (%)
011	Practical	3 & 4	40 (%)	Fine Grade	30 (%)

1500 word equivalent

In order to pass this module, students are required to achieve an overall mark of 40% (for modules at levels 3, 4, 5 and 6) or 50% (for modules at level 7*).

In addition, students are required to:
(a) achieve the qualifying mark for each element of fine graded assessment as specified above
(b) pass any pass/fail elements

[* the pass mark of 50% applies for all module occurrences from the academic year 2024/25 – see Section 3a of this MDF to check the level of the module and Section 8a of this MDF to check the academic year]