

Liverpool John Moores University

Title: APPLIED MARINE BIOLOGY
Status: Definitive
Code: **6213NATSCI** (122561)
Version Start Date: 01-08-2021

Owning School/Faculty: Biological and Environmental Sciences
Teaching School/Faculty: Biological and Environmental Sciences

Team	Leader
Sheelagh Conlan	Y
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Academic Level: FHEQ6 **Credit Value:** 20 **Total Delivered Hours:** 53
Total Learning Hours: 200 **Private Study:** 147

Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Lecture	16
Off Site	16
Practical	9
Seminar	6
Workshop	6

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Essay	AS1	A literature review of 2000 (+/- 10%) words of a marine subject	40	
Presentation	AS2	A conference style presentation with associated tests	60	

Aims

To advance understanding of major biological features of the marine environment and appraise the human impacts as well as the exploitation of marine resources. Develop an advanced understanding of the physiology, ecology, genetics and behaviour of marine organisms in a number of major taxonomic groups. The module will develop an ability to evaluate many of the sampling and analysis methods relevant to marine sciences. Students will analyse data collected normally in groups to produce an individual presentation similar to a short conference presentation.

Learning Outcomes

After completing the module the student should be able to:

- 1 Assess the importance and impact of maritime industries on marine life.
- 2 Critically evaluate the use of field and laboratory equipment to sample, identify, and analyse marine biological samples
- 3 Report findings of a research topic as a presentation to a professional standard
- 4 Demonstrate an awareness of the complex interactions within the marine environment and the opportunities for exploitation in various parts of the world and the risks associated with their use

Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

Essay	1	4
Presentation with tests	2	3

Outline Syllabus

Advanced understanding of biological issues in marine ecosystems including physiology, genetics and behaviour. Impact of humans on marine systems and exploitation of systems. Assessing methods used within the marine field and comparing methods used.

Learning Activities

The module is delivered through lectures, workshops, and videos of practical work in the field and laboratory

Notes

This module comprises an in depth development of major aspects of marine biology and focuses on how the maximum use can be made of its resources while minimising negative impacts. Some appraisal of methods of exploitation and

conservation and impacts of large scale drivers such as climate change is included.