

Liverpool John Moores University

Title: ADVANCED MARINE BIOLOGY
Status: Definitive
Code: **6028NATSCI** (121737)
Version Start Date: 01-08-2019

Owning School/Faculty: Natural Sciences & Psychology
Teaching School/Faculty: Natural Sciences & Psychology

Team	Leader
Sheelagh Conlan	Y
Craig Wilding	
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Academic Level: FHEQ6 **Credit Value:** 24 **Total Delivered Hours:** 61
Total Learning Hours: 240 **Private Study:** 179

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	10
Off Site	32
Practical	9
Seminar	6
Workshop	4

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Essay	AS1	A literature review of 2000 (+/- 10%) of a marine subject	40	
Presentation	AS2	A conference style presentation of research undertaken in groups while in the field	60	

Aims

To advance understanding of major biological features of the marine environment, the impacts of man as well as the exploitation of marine resources. Including developing an understanding of many practical skills required within the marine science sector. Develop an advanced understanding of the physiology, ecology, genetics and behaviour of marine organisms in a number of major taxonomic groups. Off site trips and practical work will develop skills in sampling and analysis methods relevant to the marine sciences. To plan, prepare and execute a scientific project and evaluate the results to produce a presentation.

Learning Outcomes

After completing the module the student should be able to:

- 1 Critically evaluate the importance and impact of maritime industries on marine life. Be aware 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
- 2 Utilise field and laboratory equipment to sample, identify, and analyse marine biological samples
- 3 Report findings of a student led research topic as a presentation to a professional standard

Learning Outcomes of Assessments

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

Review essay	1	
Research presentation	2	3

Outline Syllabus

Advanced understanding of biological issues in marine ecosystems. Including physiology, genetics and behaviour. Impact of man on marine systems and exploitation of systems. Design, planning and management of a marine scientific project.

Learning Activities

The module is delivered through lectures, practical work in the field and laboratory (practical, offsite)

Notes

This module comprises an in depth development of major aspects of marine biology (eg. physiology, genetics, ecology and behaviour). Methods of exploitation and

conservation and impacts of large scale drivers such as climate change are discussed.