

BSc (Hons) Marine Environmental Sciences– Full Time OS 300

1. Aims and Objectives

The Blue Economy, which encompasses all of the potential of marine and oceanic resources is, undoubtedly, the promising emerging economic pillar of the Republic of Mauritius. The concept of Blue Economy recognizes the productivity of healthy ocean ecosystems as a pathway for ocean-based economies, promotion of sustainable use and management of ocean and, reduction of disaster risk and climate change impact.

To support the economic development of the island in terms of capacity building, the Department of Marine and Ocean Science, Fisheries, and Mariculture, Faculty of Ocean Studies, is offering this undergraduate programme on Marine Environmental Sciences which will lead towards an honors degree upon successful completion.

The programme covers the study of marine life and surrounding environments, the threats to the systems, and sustainable development. It is designed in such a way that it provides the theoretical and practical underpinnings for higher education and/or career in a wide array of related disciplines. Students may take up careers in marine sciences, environmental sciences, education sector, technical or scientific offices, join research institutes and ministries. Students on successful completion can also enroll on any of postgraduate programs offered by the Faculty.

All the core modules of the programme address the requirements for the undergraduate degree, students will also develop field competencies. The program adopts a blended learning approach. Course modules are delivered with a mix of traditional face to face lectures and online approach and 30% of the program will be online. They will also have an opportunity to develop their research skills and apply knowledge acquired to address issues of national importance.

2. General Entry Requirements

As per General Entry Requirements for Admission to the University for Undergraduate Degrees.

3. Programme Requirements*

At least 2 GCE 'A' level Passes from any two science subjects: Mathematics, Biology, Chemistry, Physics, Marine Science or acceptable equivalent qualifications.

4. Minimum Requirements for

Awards Degree Award**

For the degree award in BSc (Hons) Marine Environmental Sciences, the student must obtain at least 100 credits including:

Modules	Credits
Minimum Credits for Core Modules	93
Final Year Project	10
TOTAL	103

*Note: Students will have to be ready to do field work and water related activities in coastal environment

. ** In order to gain work experience, students are also encouraged to join Work Based Learning (WBL) programme offered by the University of Mauritius.

5. Programme Duration

The programme is offered on a full time basis (FT)

	Normal (Years)	Maximum (Years)
Degree:	3	5

6. Credits per Year

Maximum 48 credits, Minimum 6 credits, subject to section 6

7. Assessment

Each module will carry 100 marks and will be assessed as follows (unless otherwise specified):

x Written Exams

All 3- credit Modules will be assessed by a **2 hr written exam paper**

All 6-credit Modules will be assessed by a **3 hr written exam paper**

The weighting will be 70% for examinations: 30% for Continuous assessment. The Continuous assessment may be based on laboratory works, and/or assignments and should include at least 1 class test per module.

An overall total of 40% for combined continuous assessment and written examination components would be required to pass a module, without minimum thresholds within the individual continuous assessment and written examination.

The module WCS 2200(3)-Writing Case Studies will be assessed solely by continuous assessment.

The Research Project carries 10 credits.

Submission Deadlines for research project:

- First Draft: End of March of Final Academic Year.
- Final Copy: Last working day of March of Final Academic Year

9. List of Modules

CORE MODULES

		Hrs/Week L+P	Credits
MES 1001Y(1)	Principles of Marine and Environmental Sciences	1.5+0	3
MES 1002Y(1)	Marine and Coastal Biodiversity	2.5 + 1	6
MES 1003Y(1)	Coastal and Marine Ecosystems and Functions	2.5 + 1	6
MES 1004Y(1)	Marine Resources	1.5+0	3
MES 1005Y(1)	Introduction to Oceanography	2.5 + 1	6
MES 1006Y(1)	Understanding Sustainable Development	1.5+0	3
MES 1007Y(1)	Meteorology and Climate Science	1.5+0	3
MES 1008Y(1)	Statistics and Research Methods	1.25+0.5	3
MES 1009Y(1)	Introduction to Geology	1.5+0	3
MES 2001Y(3)	Environmental Monitoring and Assessment	1.25+0.5	3
MES 2002Y(3)	Marine Microbiology and Biotechnology	2.5+1	6
MES 2003Y(3)	Environmental Hazards, Disasters and Risks	1.5 + 0	3
MES 2004Y(3)	Pollution and Ecotoxicology	2.5 + 1	6
MES 2005Y(3)	Global Environmental Change	1.5 + 0	3
MES 2006Y(3)	Geographical Information Systems and Remote Sensing	1+1	3
MES 2007Y(3)	Advanced Statistics and Experimental Design	1.5 + 0	3
MES 2008Y(3)	Fisheries Science	2.5 + 1	6
MES 2009Y(3)	Aquaculture	1.25+0.5	3
WCS 2200(3)	Writing Case Studies	9 + 0*	3
MES 3001Y(5)	Integrated Coastal Zone and Ocean Management	2.5 + 1	6
MES 3002Y(5)	Law of the Sea and Ocean Governance	3 + 0	6
MES 3003Y(5)	Marine Environmental Protection, Conservation and Management	2.5 + 1	6
MES 3000Y(5)	Research project		10
			TOTAL 103

*: This module shall consist of a total of 9 contact hours of Lectures and 36 hours of self-study.

10. Programme Plan – BSc (Hons) Marine Environmental Sciences

Year 1			
Semester 1 & 2			
Module Code CORE	Module Name	Hrs/Week L+P	Credits
MES 1001Y(1)	Principles of Marine and Environmental Sciences	1.5+0	3
MES 1002Y(1)	Marine and Coastal Biodiversity	2.5 + 1	6
MES 1003Y(1)	Coastal and Marine Ecosystems and Functions	2.5 + 1	6
MES 1004Y(1)	Marine Resources	1.5 + 0	3
MES 1005Y(1)	Introduction to Oceanography	2.5 + 1	6
MES 1006Y(1)	Understanding Sustainable Development	1.5+0	3
MES 1007Y(1)	Meteorology and Climate Science	1.5+ 0	3
MES 1008Y(1)	Statistics and Research Methods	1.25+0.5	3
MES 1009Y(1)	Introduction to Geology	1.5+0	3
			Total = 36
Year 2			
Semester 1 & 2			
Module Code CORE	Module Name	Hrs/Week L+P	Credits
MES 2001Y(3)	Environmental Monitoring and Assessment	1.25 + 0.5	3
MES 2002Y(3)	Marine Microbiology and Biotechnology	2.5+1	6
MES 2003Y(3)	Environmental Hazards, Disasters and Risks	1.5 + 0	3
MES 2004Y(3)	Pollution and Ecotoxicology	2.5 + 1	6
MES 2005Y(3)	Global Environmental Change	1.5+0	3
MES 2006Y(3)	Geographical Information Systems and Remote Sensing	1 + 1	3
MES 2007Y(3)	Advanced Statistics and Experimental Design	1.5 + 0	3
MES 2008Y(3)	Fisheries Science	2.5 + 1	6
MES 2009Y(3)	Aquaculture	1.25+0.5	3
WCS 2200(3)	Writing Case Studies	9 + 0**	3
	<i>*: This module shall consist of a total of 9 contact hours of Lectures and 36 hours of self-study.</i>		
			Total = 42
Year 3			
Semester 1 & 2			
Module Code CORE	Module Name	Hrs/Week L+P	Credits
MES 3001Y(5)	Integrated Coastal Zone and Ocean Management	2.5 + 1	6
MES 3002Y(5)	Law of the Sea and Ocean Governance	3 + 0	6
MES 3003Y(5)	Marine Environmental Protection, Conservation and Management	2.5+1	6
MES 3000Y(5)	Research project		10
			Total=28