

INSTITUTE OF ENVIRONMENTAL AND MARINE SCIENCES
BACHELOR OF SCIENCE IN MARINE BIOLOGY

(2018 CURRICULUM)

FIRST YEAR

First Semester		
Subj Code	Course Title	Units
CHS 1 (2018)	Reading & Interpreting the Hebrew Scriptures	3
GE 3 (2018)	The Contemporary World	3
GE 5 (2018)	Purposive Communication	3
GE 8 (2018)	Ethics	3
MB 11 (2018)	Ecological Concepts	3
MB 13 (2018)	Marine Invertebrates	4
PE 1 (2018)	Physical Fitness & Swimming	(2)
NSTP 1 (2018)	National Service Training Program	(3)
PEP 1 (2018)	Personality Enhancement Program	
	TOTAL	19

Second Semester		
Subj Code	Course Title	Units
CHS 2 (2018)	Reading & Interpreting the Christian Scriptures	3
GE 1 (2018)	Understanding the Self	3
GE 2 (2018)	Readings in Philippine History	3
Math 18 (2018)	Calculus I	4
MB 12 (2018)	Marine Botany	4
MB 14 (2018)	General Physiology	3
PE 2 (2018)	Physical Education	(2)
NSTP 2 (2018)	National Service Training Program	(3)
PEP 2 (2018)	Personality Enhancement Program	
	TOTAL	20

SECOND YEAR

First Semester		
Subj Code	Course Title	Units
GE 4 (2018)	Mathematics in the Modern World	3
GE 6 (2018)	Art Appreciation	3
MB 21 (2018)	Analytical Chemistry	3
MB 23 (2018)	Scientific Writing	3
MB 25 (2018)	Marine Ecology	4
MB 27 (2018)	Reproductive & Developmental Biology	3
PE 3 (2018)	Physical Education	(2)
	TOTAL	19

Second Semester		
Subj Code	Course Title	Units
GE 7 (2019)	Science, Technology & Society	3
GE 9 (2018)	The Life and Works of Jose Rizal	3
MB 22 (2018)	Organic Chemistry	3
MB 24 (2018)	Inferential Statistics & Biometry	3
MB 26 (2018)	Chemical & Biological Oceanography	4
MB 28 (2018)	Cell & Molecular Biology	4
PE 4 (2018)	Physical Education	(2)
	TOTAL	20

THIRD YEAR

First Semester		
Subj Code	Course Title	Units
GE 10 (2018)	Retorika: Ang Sining ng Pagpapahayag*	3
GE 12 (2018)/ CHS 3 (2018)	Christianity and Peace-Building	3

Second Semester		
Subj Code	Course Title	Units
GE 11 (2018)	Panitikan*	3
MB 32 (2018)	Waves, Optics and Thermodynamics	3
MB 34 (2018)	Geological & Physical Oceanography	4

MB 31 (2018)	Mechanics, Electromag & Grav Theory	3
MB 33 (2018)	Biochemistry	3
MB 35 (2018)	Basic Meteorology	3
MB 37 (2018)	Coral Reefs	3
MB 39 (2018)	Introduction to Genetics	4
	TOTAL	22

MB 36 (2018)	Marine Microbiology & Fungi	4
MB 38 (2018)	Elements of Research	3
MB 40 (2018)	Problem Development, Sampling Design & Method	2
	TOTAL	19

NOTE for Summer Term:

Subjects with "R" can be enrolled in any semester

Subjects with "S" are only offered in summer term

(unless for special cases).

MB 43R*(Data Gathering and Analysis) are for students

who passed MB 38 (2018) and are gathering data

Summer

Subj Code	Course Title	Units
MB 41S (2018)	Practicum (144 hr)	3
MB 42R (2018)	Water Safety	3
MB 43R (2018)	Data Gathering & Analysis*	2
	TOTAL	6
	or	8

FOURTH YEAR

First Semester

Subj Code	Course Title	Units
MB 51 (2018)	Systematics, Biodiversity & Evolution	4
MB 53 (2018)	Marine Vertebrates	4
MB 55 (2018)	Integrated Coastal/Marine Mgt	3
MBElec1 (2018)	Marine Biology Elective-1	3
MB 43R (2018)	Data Gathering & Analysis**	2**
	**If not enrolled in previous summer term	
	TOTAL	14/16**

Second Semester

Subj Code	Course Title	Units
MBElec2 (2018)	Marine Biology Elective -2	3
MBElec3 (2018)	Marine Biology Elective -3	3
MBElec4 (2018)	Marine Biology Elective -4	3
MBElec5 (2018)	Marine Biology Elective -5	3
MB 99 (2018)	Thesis Write-up & Presentation of Results	3
	TOTAL	15

* May be replaced by GE electives under Mathematics, Science and Technology of CM0 20 s2013

GENERAL EDUCATION SUBJECTS (Includes University GE Requirements CHS)

GE 1. Understanding the Self

GE 2. Readings in Philippine History

GE 3. The Contemporary World

GE 4. Mathematics in the Modern World

GE 5. Purposive Communication

GE 6. Art Appreciation

GE 8. Ethics

GE 9. The Life and Works of Jose Rizal

GE 10. Retorika: Sining ng Pagpapahayag

GE 11. Panitikan

GE 12/CHS 3. Christian and Peace Building

CHS 1 - Reading & Interpreting the Hebrew Scriptures

GE 7. Science, Technology & Society

CHS 2 - Reading & Interpreting the Christian Scriptures

MARINE BIOLOGY ELECTIVES

MB 60. Ichthyology

MB 61. Fishery Management

MB 62. Mariculture/Silviculture

MB 63. Marine Pollution

MB 64. Pathology of Marine Organisms

MB 65. Marine Birds

MB 66. Marine Mammals

MB 67. Sediment Ecology

MB 68. Marine Plankton

MB 69. Phycology

MB 70. Marine Protected Areas

MB 71. Scientific Diving

MB 72. Remote Sensing and GIS

MB 73. Marine Reptiles

MB 74. Marine Natural Products

MB 75. Marine Biogeography and Mapping

MB 76. Ecosystem Remediation and Restoration

MB 77. Insects & the Marine Ecosystem

MB 78. Mangrove Forests

MB 79. Special Topics in Marine Biology