

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

(2018 CURRICULUM)

FIRST SEMESTER

First Semester		
Subj Code	Course Title	Units
CHS 1	Reading & Interpreting of Hebrew Scriptures	3
GE	(Select from choices, take GE10 before GE11)	3
GE		3
GE		3
MB 11	Ecological Concepts	3
MB 13	Marine Invertebrates	4
PE 1	Physical Fitness & Swimming	(2)
NSTP 1	National Training Service Program	(3)
PEP 1	Personality Enhancement Program	
TOTAL		19 (24)

Second Semester		
Subj Code	Course Title	Units
CHS 2	Reading & Interpreting the Christian Scriptures	3
GE	(Select from choices, take GE10 before GE11)	3
GE		3
Math 24	Calculus I	4
MB 12	Marine Botany	4
MB 14	General Physiology	3
PE 2	Physical Education	(2)
NSTP 2	National Training Service Program	(3)
PEP 2	Personality Enhancement Program	
TOTAL		20 (25)

SECOND YEAR

GE	(Select from choices, take GE10 before GE11)	3
GE		3
MB 21	Analytical Chemistry	3
MB 23	Scientific Writing	3
MB 25	Marine Ecology	4
MB 27	Reproductive & Developmental Biology	3
PE 3	Physical Education	(2)
TOTAL		19 (21)

GE	(Select from choices, take GE10 before GE11)	3
GE		3
MB 22	Organic Chemistry	3
MB 24	Inferential Statistics & Biometry	3
MB 26	Chemical & Biological Oceanography	4
MB 28	Cell & Molecular Biology	4
PE 4	Physical Education	(2)
TOTAL		20 (22)

THIRD YEAR

GE	(Select from choices, take GE10 before GE11)	3
GE		3
MB 31	Mechanics, Electromag & Grav Theory	3
MB 33	Biochemistry	3
MB 35	Basic Meteorology	3
MB 37	Coral Reefs	3
MB 39	Introduction to Genetics	4
TOTAL		22

GE	(Select from choices, take GE10 before GE11)	3
MB 32	Waves, Optics and Thermodynamics	3
MB 34	Geological & Physical Oceanography	4
MB 36	Marine Microbiology & Fungi	4
MB 38	Elements of Research	3
MB 40	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* is only for students who have passed their colloquium and are gathering thesis data

Summer

MB 41	Practicum (144 hr)	3
MB 42R	Water Safety	3
MB 43R	Data Gathering & Analysis*	2*
TOTAL		6 or 8

FOURTH YEAR

MB 51	Systematics, Biodiv & Evolution	4
MB 53	Marine Vertebrates	4
MB 55	Integrated Coastal/Marine Mgt	3
MB Elec1	Marine Biology Elective-1	3
MB 43R	Data Gathering & Analysis**	2**
	**If not enrolled in previous summer term	
TOTAL		14 or 16

MB Elec2	Marine Biology Elective -2	3
MB Elec3	Marine Biology Elective -3	3
MB Elec4	Marine Biology Elective -4	3
MB Elec5	Marine Biology Elective -5	3
MB 99	Thesis Write-up & Presentation of Results	3
TOTAL		15

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 7. Science, Technology & Society

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

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