SILLIMAN UNIVERSITY

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

(2018 CURRICULUM)

FIRST YEAR

	First Semester					
Subj Code	Course Title	Units	Lec	Lab	PreReq	Subj Co
CHS 1 (2018)	Reading & Interpreting the Hebrew Scriptures	3	3	0		CHS 2 (2
GE 3 (2018)	The Contemporary World	3	3	0		GE 1 (20
GE 5 (2018)	Purposive Communication	3	3	0		GE 2 (20
GE 8 (2018)	Ethics	3	3	0		Math 18 (
MB 11 (2018)	Ecological Concepts	3	2	1	SHS ELS	MB 12 (2
MB 13 (2018)	Marine Invertebrates	4	2	2	SHS Bio2	MB 14 (2
PE 1 (2018)	Basic Physical Education I	2	2	0		PE 2 (20
NSTP 1 (2018)	National Service Training Program	(3)	3	0		NSTP 2 (2
PEP 1 (2018)	Personality Enhancement Program					PEP 2 (2
•	TOTAL	21(24)	21	3		
	Contact hours/week	30	21	9		

	Second Semester				
Subj Code	Course Title	Units	Lec	Lab	PreReq
CHS 2 (2018)	Reading & Interpreting the Christian Scriptures	3	3	0	CHS 1
GE 1 (2018)	Understanding the Self	3	3	0	
GE 2 (2018)	Readings in Philippine History	3	3	0	
Math 18 (2018)	Calculus	4	4	0	SHS Math2
MB 12 (2018)	Marine Botany	4	2	2	SHS Bio2
MB 14 (2018)	General Physiology	3	2	1	SHS Bio2
PE 2 (2018)	Physical Education	2	2	0	PE 1
NSTP 2 (2018)	National Service Training Program	(3)	(3)	0	NSTP 1
PEP 2 (2018)	Personality Enhancement Program				PEP 1
	TOTAL	22(25)	22	3	
	Contact hours/week	31	22	9	

SECOND YEAR

	First Semester				
Subj Code	Course Title	Units	Lec	Lab	PreReq
GE 4 (2018)	Mathematics in the Modern World	3	3	0	
GE 6 (2018)	Art Appreciation	3	3	0	
MB 21A (2018)	Inorganic Analytical Chemistry	3	2	1	SHS Chem2
MB 23 (2018)	Scientific Writing	3	2	1	SHS Research
MB 25 (2018)	Marine Ecology	4	2	2	MB 11, 12, 13
MB 27 (2018)	Reproductive & Developmental Biology	3	2	1	MB 14
PE 3 (2018)	Physical Education	2	2	0	PE 2
	TOTAL	21	16	5	
	Contact hours/week	31	16	15	

	Second Semester				
Subj Code	Course Title	Units	Lec	Lab	PreReq
GE 7 (2019)	Science, Technology & Society	3	3	0	
GE 9 (2018)	The Life and Works of Jose Rizal	3	3	0	
MB 22 (2018)	Organic Chemistry	4	2	2	MB 21
MB 24 (2018)	Inferential Statistics & Biometry	3	2	1	SHS Stat
MB 26 (2018)	Chemical & Biological Oceanography	4	2	2	MB21 &
IVIB 20 (2016)	Chemical & Biological Oceanography	4	4		MB25
MB 28 (2018)	Cell & Molecular Biology	4	3	1	MB 27
PE 4 (2018)	Physical Education	2	2	0	PE 3
	TOTAL	23	17	6	
	Contact hours/week	35	17	18	

THIRD YEAR

	First Semester				
Subj Code	Course Title	Units	Lec	Lab	PreReq
GE 10A (2018)	Whole Person Education	3	3	0	
MB 31A (2018)	Mechanics, Electromagnetism & Gravitational Theory	3	2	1	SHS Physics
MB 33A (2018)	Biochemistry	3	2	1	MB 22
MB 35A (2018)	Climate Change and Inter-connectivity	3	2	1	MB 25
MB 37A (2018)	Coral Reefs	3	2	1	MB 25
MB 39A (2018)	Introduction to Genetics	4	3	1	MB 27, MB 28
	TOTAL	19	14	5	
	Contact hours/week	29	14	15	

:

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

Subj Code	Course Title	Units	Lec	Lab	PreReq
GE 11A (2018)	Open Elective	3	3	0	
MB 32A (2018)	Waves, Optics & Thermodynamics	3	2	1	MB 31
MB 34A (2018)	Geological & Physical Oceanography	4	2	2	Math 18 & MB 31
MB 36A (2018)	Marine Microbiology & Fungi	4	2	2	MB 12
MB 38A (2018)	Elements of Research	3	3	0	MB 24
MB 40A1 (2018)	Undergraduate Thesis-1	2	2	0	MB 37
	TOTAL	19	14	5	
	Contact hours/week	29	14	15	

Second Semester

Summer

Subj Code	Course Title		Units	Lec	Lab	PreReq
MB 41S (2018)	Practicum (162 hr)		3	0	3	MB 38
MB 42R (2018)	Water Safety		3	1	2	
MB 43RA (2018)	Undergraduate Thesis-2*		2	0	2	MB 38
		TOTAL	6	1	5	
		or	8	1	7	

FOURTH YEAR

First Semester				
Course Title	Units	Lec	Lab	PreReq
Systematics, Biodiversity & Evolution	4	2	2	MB 12, MB 36
Marine Vertebrates	4	2	2	MB 27
Integrated Coastal/Marine Resource	4	2	2	MB 26, MB 34
Management	4	2		IVID 20, IVID 34
Marine Biology Elective-1	3	2	1	MB 26, MB 34
Undergraduate Thesis-2**	2**	0	2	MB 38
**If not enrolled in previous summer				
term				
TOTAL	15/17**	8	9	
Contact hours/week	35	8	27	
	Course Title Systematics, Biodiversity & Evolution Marine Vertebrates Integrated Coastal/Marine Resource Management Marine Biology Elective-1 Undergraduate Thesis-2** **If not enrolled in previous summer term TOTAL	Course Title Units Systematics, Biodiversity & Evolution 4 Marine Vertebrates 4 Integrated Coastal/Marine Resource 4 Management 3 Marine Biology Elective-1 3 Undergraduate Thesis-2** 2** **If not enrolled in previous summer term TOTAL 15/17**	Course Title Units Lec Systematics, Biodiversity & Evolution 4 2 Marine Vertebrates 4 2 Integrated Coastal/Marine Resource Management 4 2 Marine Biology Elective-1 3 2 Undergraduate Thesis-2** 2** 0 **If not enrolled in previous summer term TOTAL 15/17** 8	Course Title Units Lec Lab Systematics, Biodiversity & Evolution 4 2 2 Marine Vertebrates 4 2 2 Integrated Coastal/Marine Resource Management 4 2 2 Marine Biology Elective-1 3 2 1 Undergraduate Thesis-2** 2** 0 2 **If not enrolled in previous summer term TOTAL 15/17** 8 9

1 Lecture unit = 1 contact hour; 1 Laboratory unit = 3 contact hours

Second Semester

occona ocinicate:						
Subj Code	Course Title	Units	Lec	Lab	PreReq	
CHS 3/GE 12 (2018)	Ethics of the Christian Faith	3	3	0	CHS 2	
MBElec2 (2018)	Marine Biology Elective -2	3	2	1	MB 26, 34	
MBElec3 (2018)	Marine Biology Elective -3	3	2	1	MB 26, 34	
MBElec4 (2018)	Marine Biology Elective -4	3	2	1	MB 26, 34	
MBElec5 (2018)	Marine Biology Elective -5	3	2	1	MB 26, 34	
MB 99A (2018)	Undergraduate Thesis-3	2	2	0	MB 43R	
	TOTAL	17	13	4		
	Contact hours/week	25	13	12		

MARINE BIOLOGY ELECTIVES

MB 60 (2018). Ichthyology

MB 61 (2018). Fishery Management

MB 62 (2018). Mariculture/Silviculture

MB 63 (2018). Marine Pollution

MB 64 (2018). Pathology of Marine Organisms

MB 65 (2018). Marine Birds

MB 66 (2018). Marine Mammals

MB 67 (2018). Sediment Ecology MB 68 (2018). Marine Plankton

MB 69 (2018). Phycology

MB 70 (2018). Marine Protected Areas

MB 71 (2018). Scientific Diving

MB 72 (2018). Remote Sensing and GIS

MB 73 (2018). Marine Reptiles

MB 74 (2018). Marine Natural Products

MB 75 (2018). Marine Biogeography and Mapping

MB 76 (2018). Ecosystem Remediation and Restoration

MB 77 (2018). Insects & the Marine Ecosystem

MB 78 (2018). Mangrove Forests

MB 79 (2018). Special Topics in Marine Biology