

SILLIMAN UNIVERSITY
INSTITUTE OF ENVIRONMENTAL AND MARINE SCIENCES
BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCE
(2018 CURRICULUM)

FIRST YEAR

First Semester							Second Semester						
Subject Code	Course Title	Units	Lec	Lab	PreReq	FG	Subject Code	Course Title	Units	Lec	Lab	PreReq	FG
CHS 1 (2018)	Reading and Interpreting the Hebrew Scriptures	3	3	0			CHS 2 (2018)	Reading and Interpreting the Christian Scriptures	3	3	0	CHS 1	
GE 3 (2018)	The Contemporary World	3	3	0			GE 1 (2018)	Understanding the Self	3	3	0		
GE 5 (2018)	Purposive Communication	3	3	0			Chem 18 (2018)	Analytical Chemistry*	5	3	2	SHS Chem	
GE 8 (2018)	Ethics	3	3	0			Math 12 (2018)	Plane Trigonometry	3	3	0		
Math 11 (2018)	College Algebra	3	3	0			ES 12A (2018)	Introduction to Environmental Science	3	3	0		
ES 11A (2018)	Ecological Concepts	3	2	1	SHS ELS		ES 14A (2018)	General Physiology	3	2	1	SHS Bio2	
PE 1 (2018)	Basic Physical Education I	2	2	0			PE 2 (2018)	Physical Education	2	2	0	PE 1	
NSTP 1 (2018)	National Service Training Program	(3)	3	0			NSTP 2 (2018)	National Service Training Program	(3)	3	0	NSTP 1	
PEP 1 (2018)	Personality Enhancement Program						PEP 2 (2018)	Personality Enhancement Program				PEP 1	
TOTAL		20(23)	22	1			TOTAL		22(25)	22	3		
Contact hours/week		25	22	3			Contact hours/week		37	22	15		

SECOND YEAR

First Semester							Second Semester						
Subject Code	Course Title	Units	Lec	Lab	PreReq	FG	Subject Code	Course Title	Units	Lec	Lab	PreReq	FG
GE 4 (2018)	Mathematics in the Modern World	3	3	0			GE 7 (2019)	Science, Technology & Society	3	3	0		
GE 6 (2018)	Art Appreciation	3	3	0			GE 9 (2018)	The Life and Works of Jose Rizal	3	3	0		
Chem 19 (2018)	Organic Chemistry*	5	3	2	SHS Chem		Chem 20 (2018)	Biochemistry*	5	3	2	Chem 19	
ES 21A (2018)	Scientific Writing**	3	2	1	SHS Research		Math 18 (2018)	Calculus**	4	4	0	Math 11, 12	
ES 23A (2018)	Reproductive & Developmental Biology**	3	2	1	ES 14A		ES 22A (2018)	Inferential Statistics & Biometry	3	2	1	SHS Stat	
PE 3 (2018)	Physical Education	2	2	0	PE 2		ES 24A (2018)	Cell & Molecular Biology**	4	3	1	ES 23A	
TOTAL		19	15	4			TOTAL		24	20	4		
Contact hours/week		27	15	12			Contact hours/week		32	20	12		

THIRD YEAR

First Semester							Second Semester						
Subject Code	Course Title	Units	Lec	Lab	PreReq	FG	Subject Code	Course Title	Units	Lec	Lab	PreReq	FG
GE 10A (2018)	Whole Person Education	3	3	0			GE 11A (2018)	Open Elective	3	3	0		
CHS 3/GE 12 (2018)	Ethics of the Christian Faith	3	3	0	CHS 2		GE 2 (2018)	Readings in Philippine History	3	3	0		
ES 31A (2018)	Human-Environment Interactions	3	2	1			ES 30A (2018)	Biogeography	3	2	1		
ES 33 (2018)	Elements of Environmental Management	3	3	0	ES 12A		ES 32A (2018)	Oceanography**	3	2	1		
ES 35A (2018)	Mechanics, Electromagnetism & Gravitational Theory	3	2	1	SHS Physics		ES 34A (2018)	Integrated Natural Resource Management	3	2	1		
ES 37A (2018)	Climate Change & Inter-connectivity	3	2	1	ES 11A		ES 36A (2018)	Land Use with CLUP	3	3	0		
ES 39A (2018)	Conservation Ecology	3	2	1	ES 11A		ES 38A (2018)	Waves, Optics & Thermodynamics	3	2	1		
TOTAL		21	17	4			TOTAL		24	20	4		
Contact hours/week		29	17	12			Contact hours/week		32	20	12		

FOURTH YEAR

First Semester							Second Semester						
Subject Code	Course Title	Units	Lec	Lab	PreReq	FG	Subject Code	Course Title	Units	Lec	Lab	PreReq	FG
ES 41A (2018)	Systematics, Biodiversity & Conservation	3	2	1	ES 24A		ES 42AA (2018)	Waste and Pollution	3	3	0	ES31A, 32A	
ES 43A (2018)	Environmental Monitoring	5	3	2	ES31A, 32A		ES 44A (2018)	Env. Health & Toxicology	3	2	1		
ES 45A (2018)	The EIA System	3	2	1	ES31A, 32A		ES 46A (2018)	Agriculture and the Environment	3	3	0		
ES 47A (2018)	Mapping and GIS	3	2	1			ES 48A (2018)	Water and Wastewater Management	3	3	0		
ES 49A (2018)	Natural Hazards & Mitigation	3	3	0	ES31A, 32A		ES 50A (2018)	Special Topics in Environmental Science	3	2	1		
ES 51A (2018)	Ecosystem Remediation and Restoration	3	2	1			ES 52A (2018)	Environmental Policies	3	3	0		
ES 97A (2018)	Undergraduate Thesis I	3	1	2	ES 40A		ES 98A (2018)	Undergraduate Thesis II	3	2	1	ES 97A	
TOTAL		23	15	8			TOTAL		21	18	3		
Contact hours/week		39	15	24			Contact hours/week		27	18	9		

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

* Taken with BS Biology students

** Can be "slashed" with BS Marine Biology subjects if students number is below 20 pax

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