

INSTITUTE OF ENVIRONMENTAL AND MARINE SCIENCES  
**BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCE**  
 (2019 CURRICULUM)

**FIRST YEAR**

First Semester			Second Semester		
Subject Code	Course Title	Units	Subject Code	Course Title	Units
CHS 1 (2019)	Reading and Interpreting the Hebrew Scriptures	3	CHS 2 (2019)	Reading and Interpreting the Christian Scriptures	3
GE 3 (2019)	The Contemporary World	3	GE 1 (2019)	Understanding the Self	3
GE 5 (2019)	Purposive Communication	3	GE 2 (2019)	Readings in Philippine History	3
GE 8 (2019)	Ethics	3	Chem 18 (2019)	Analytical Chemistry*	5
Math 11 (2019)	College Algebra	3	Math 12 (2019)	Plane Trigonometry	3
ES 11 (2019)	Ecological Concepts	3	ES 12 (2019)	Introduction to Environmental Science	3
PE 1 (2019)	Physical Fitness and Swimming	2	PE 2 (2019)	Physical Education	2
NSTP 1 (2019)	National Service Training Program	(3)	NSTP 2 (2019)	National Service Training Program	(3)
PEP 1 (2019)	Personality Enhancement Program		PEP 2 (2019)	Personality Enhancement Program	
		TOTAL			TOTAL
		20 (23)			22 (25)

**SECOND YEAR**

First Semester			Second Semester		
Subject Code	Course Title	Units	Subject Code	Course Title	Units
GE 4 (2019)	Mathematics in the Modern World	3	GE 7 (2019)	Science, Technology & Society	3
GE 6 (2019)	Art Appreciation	3	GE 9 (2019)	The Life and Works of Jose Rizal	3
Chem 19 (2019)	Organic Chemistry*	5	Chem 20 (2019)	Biochemistry*	5
ES 21 (2019)	Scientific Writing	3	Math 18 (2019)	Calculus	4
ES 23 (2019)	Reproductive & Developmental Biology	3	ES 22 (2019)	Inferential Statistics & Biometry	3
PE 3 (2019)	Physical Education	2	ES 24 (2019)	Cell & Molecular Biology	3
			PE 4 (2019)	Physical Education	2
		TOTAL			TOTAL
		19			23

**THIRD YEAR**

First Semester			Second Semester		
Subject Code	Course Title	Units	Subject Code	Course Title	Units
GE 10 (2019)	Retorika: Sining ng Pagpapahayag*	3	GE 11 (2019)	Panitikan*	3
GE 12 (2019)/ CHS 3 (2019)	Christianity and Peace Building	3	ES 28 (2019)	Biogeography	3
ES 31 (2019)	Mapping and GIS	3	ES 30 (2019)	Oceanography	3
ES 33 (2019)	Elements of Environmental Management	3	ES 32 (2019)	Integrated Natural Resource Management	3
ES 35 (2019)	Mechanics, Electromagnetism & Gravitational Theory	3	ES 34 (2019)	Land Use with CLUP	3
ES 37 (2019)	Basic Meteorology	3	ES 36 (2019)	Waves, Optics & Thermodynamics	3
ES 39 (2019)	Conservation Ecology	3	ES 38 (2019)	General Physiology	3
			ES 40 (2019)	Elements of Research	3
		TOTAL			TOTAL
		21			24

**FOURTH YEAR**

First Semester

Second Semester

Subject Code	Course Title	Units	Subject Code	Course Title	Units
ES 41 (2019)	Systematics, Biodiversity & Conservation	3	ES 42 (2019)	Waste and Pollution	3
ES 43 (2019)	Environmental Monitoring	5	ES 44 (2019)	Ecosystem Remediation and Restoration	3
ES 45 (2019)	The EIA System	3	ES 46 (2019)	Env. Health & Toxicology	3
ES 47 (2019)	Human-Environment Interactions	3	ES 48 (2019)	Agriculture & the Environment	3
ES 49 (2019)	Natural Hazards & Mitigation	3	ES 50 (2019)	Water and Wastewater Management	3
ES 99 (2019)	Undergraduate Thesis	3	ES 60 (2019)	Special Topics in Environmental Science	3
	TOTAL	20		TOTAL	18

\* 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 (2018): Understanding the Self