



University of Southeastern Philippines
College of Engineering

BACHELOR OF SCIENCE IN GEOLOGY
CMO Series of _____
Approved per BOR Resolution No. 58 Series of 2018
Revised per BOR Resolution No. 75 Series of 2019
Effective S.Y. 2018-2019

1st Semester					2nd Semester						
Course No.	Course Title	Credit		Total Units Credit	Pre/Co-Requisite	Course No.	Course Title	Credit		Total Units Credit	Pre/Co-Requisite
		Lec	Lab					Lec	Lab		
GE 111	Purposive Communication	3	0	3	None	GE 113	Understanding the Self	3	0	3	None
GE 112	Mathematics in the Modern World	3	0	3	None	GEN 112	General Surveying I	2	1	3	None
GE 215	The Life and Works of Rizal	3	0	3	None	Math 121	Engineering Drawing and Plans	0	1	1	None
Math 111	Engineering Calculus 1	3	0	3	None	Nat Sci 5	Engineering Calculus 2	3	0	3	Math 111
Nat Sci 4	Qualitative/Quantitative Inorganic Chemistry	3	1	4	None	Geol 111	Physics 1	3	1	4	Geol 111
Geol 111	Principles of Geology	3	0	3	None	Geol 121	Mineralogy	3	0	3	Geol 111
PE 111	Movement Enhancement	2	0	2	None	Geol 121L	Mineralogy Lab	0	2	2	Geol 111
NSTP 111	National Service Training Program 1	3	0	3	None	PE 122	Fitness Exercise	2	0	2	None
TOTAL					TOTAL					24	

OFF SEMESTER					
Course No.	Course Title	Credit		Total Units Credit	Pre/Co-Requisite
		Lec	Lab		
Nat Sci 6	Physics 2	3	1	4	Nat Sci 5
TOTAL					6

1st Semester					2nd Semester						
Course No.	Course Title	Credit		Total Units Credit	Pre/Co-Requisite	Course No.	Course Title	Credit		Total Units Credit	Pre/Co-Requisite
		Lec	Lab					Lec	Lab		
GE 216	Readings in Philippine History	3	0	3	None	GE 114	Ethics	3	0	3	None
Math 213	Elementary Statistics	3	0	3	Math 121	GE 217	Science, Technology, and Society	3	0	3	None
Geol 211	Structural Geology and Tectonics	3	0	3	BES 101, GEN 112, Geol 121	Nat Sci 7	Analytical Chemistry	3	2	5	Nat Sci 4
Geol 211L	Structural Geology and Tectonics and Fieldwork	0	1	1	BES 101, GEN 112, Geol 121	Geol 221	Geomorphology	3	0	3	Geol 216/211, Geol 116/212
Geol 212	Petrology	3	0	3	Geol 121, Geol 121L	Geol 221L	Geomorphology Lab	0	1	1	Geol 216/211, Geol 212/212L
Geol 212L	Petrology Lab	0	2	2	Geol 121, Geol 121L	Geol 222	Stratigraphy and Historical Geology	3	0	3	Geol 216/211, Geol 212/212L
Geol 213	Optical Mineralogy	3	0	3	BES 101, Geol 121	Geol 222L	Stratigraphy and Historical Geology Lab	0	1	1	Geol 216/211, Geol 212/212L
Geol 213L	Optical Mineralogy Lab	0	2	2	BES 101, Geol 121	Geol 223	Paleontology	3	0	3	Geol 216/211, Geol 212/212L
PE 213	Physical Activities Towards Health & Fitness I	2	0	2	None	PE 224	Physical Activities Towards Health & Fitness II	2	0	2	None
TOTAL					TOTAL					24	

1st Semester					
Course No.	Course Title	Credit		Total Units Credit	Pre/Co-Requisite
		Lec	Lab		
EGE 311	General Education Elective 1	3	0	3	None
GE 319	Contemporary World	3	0	3	None
Geol 311	Geophysics	3	0	3	Geol 214/221L, Geol 224/222L
Geol 311L	Geophysics Lab	0	1	1	Geol 214/221L, Geol 224/222L
Geol 312	Computer Application in Geology	2	1	3	Geol 214/221L
Geol 313	Geochemistry	3	0	3	Geol 214/221L, Geol 224/222L
Nat Sci 8	Principles of Biology	3	1	4	Nat Sci 7
Econ 122	Introductory Economics	3	0	3	Math 222
TOTAL					23

OFF SEMESTER					
Course No.	Course Title	Credit		Total Units Credit	Pre/Co-Requisite
		Lec	Lab		
Geol 325	Field Geology/OJT (320 hrs)	0	6	6	Geol 322, 323, and 324
TOTAL					6

2nd Semester					
Course No.	Course Title	Credit		Total Units Credit	Pre/Co-Requisite
		Lec	Lab		
GE 218	Arts Appreciation	3	0	3	None
Geol EL 1	Geology Elective 1	3	0	3	Geol 211
EGE 312	General Education Elective 2	3	0	3	None
Geol 321	Geostatistics	3	0	3	Math 222, Geol 312
Geol 322	Geology of the Philippines and SE Asia	3	0	3	Geol 312, Geol 224/222L
Geol 323	Resource Geology	3	0	3	Geol 312, Geol 322, Geol 322
Geol 324	Research Methodologies in Geology	3	0	3	Geol 313, Geol 322, Geol 321
Geol EL 2	Free Elective 1	3	0	3	Geol 211
TOTAL					24

1st Semester					
Course No.	Course Title	Credit		Total Units Credit	Pre/Co-Requisite
		Lec	Lab		
Geol 411	Seminar in Geology	3	0	3	All prior subjects
Geol 412	Geohazard	3	0	3	Geol 214/221L, Geol 312
Geol 413	Geology, Mining and Environmental Laws, Energy Policies and Ethics	3	0	3	All prior subjects
Geol EL 3	Geology Elective 2	3	0	3	Geol 211
Geol EL 4	Geology Elective 3	3	0	3	Geol 211
EGE 313	General Education Elective 3	3	0	3	None
Geol 400	Thesis*	0	3	3	All prior subjects
TOTAL					21

2nd Semester					
Course No.	Course Title	Credit		Total Units Credit	Pre/Co-Requisite
		Lec	Lab		
Geol 421	Correlation Course	0	2	2	All prior subjects
BES 108	Fluid Mechanics	3	0	3	Geol 211/211L
Geol EL 5	Free Elective 2	3	0	3	Geol 211
Geol EL 6	Geology Elective 4	3	0	3	Geol 211
Geol 400	Thesis*	0	3	3	All prior subjects
TOTAL					14

SUGGESTED GEOLOGY ELECTIVE COURSES				
Geol 326	Geodynamics and Tectonics	3		Geol 211L
Geol 327	Petrography	3		Geol 212
Geol 328	Sedimentary Petrology	3		Geol 212L
Geol 329	Igneous and Metamorphic Petrology	3		Geol 212, Geol 213
Geol 422	Photogeology and Remote Sensing	3		Geol 221, Geol 211
Geol 423	Petroleum Geology	3		Geol 313
Geol 424	Marine Geology	3		
Geol 425	Volcanology	3		Geol 221L
Geol 426	Engineering Geology/Geotechnical Engineering	3		
Geol 427	Applied Geophysics	3		Geol 311L
Geol 428	Geothermal Resources	3		
Geol 429	Hydrogeology	3		
Geol 430	Environmental Geology	3		Geol 313
Geol 431	Applied Geochemistry	3		
Geol 432	Mineral Economics	3		
Geol 433	Mineral Resources of the Philippines	3		Geol 321, Geol 323
Geol 434	Mining Geology	3		Geol 322
NON-GEOLOGY				
GE 101	Mine Surveying	3		GEN 112
	Rock Mechanics	3		Geol 311 & Geol 311L
GE 112	Geographical Information Systems	3		

SUGGESTED GENERAL EDUCATION ELECTIVES				
	People and the Earth's Ecosystem	3		None
	The Entrepreneurial Mind	3		None
	Living in the IT Era	3		None
	Gender and Society	3		None
	Foreign Language	3		None
	Transpersonal Psychology	3		None
	Popular Literature	3		None

GENERAL EDUCATION SUBJECTS		36
REQUIRED COURSES		14
PE		8
NSTP		6
CORE COURSES		112
Non-Geology		40
Geology		72
ELECTIVES		18
Non-Geology		6
Geology		12
THESIS		6
TOTAL		186