

Department of Geography, Geology, and the Environment - Curriculum Guide

Bachelor of Science in Environmental Geoscience – Track in Environmental Science

LIBERAL STUDIES REQUIREMENTS (50 credits) See Liberal Studies Guide for Goal and Enrichment choices				
✓	Course	Title	Cr	Gr
Basic Requirements (12 credits)				
	ENGL 101	College Writing I	3	
	ENGL 103	College Writing II*	3	
	ENGL 210	Interpreting Literature	3	
	COMM 200	Public Speaking*	3	
The Arts (3 credits)				
			3	
Global Community (9 credits)				
		US Course	3	
		Non-US Course	3	
		Non-US Course	3	
Human Institutions & Interpersonal Relationships (3 credits)				
			3	
Science, Technology & Mathematics (11 credits)				
	CHEM 108	General Chemistry II*◇	3	
	CHEM 112	General Chemistry II Lab*◇	1	
	PHYS 213	General Physics III♣♣*◇	3	
	MATH 225	Calculus I*◇	4	
Challenges of the Modern Age (3 credits)				
			3	
Enrichment – Select 1 course from 3 of the following (9 credits)				
		The Arts	3	
		Global Community	3	
		Human Institutions & Interpersonal Relationships	3	
		Science, Technology, and Mathematics	3	

COLLEGE OF HEALTH, ENVIRONMENT AND SCIENCE REQUIREMENTS (11 credits – 4 included in LS-ST&M)				
✓	Course	Title	Cr	Gr
	CHEM 107	General Chemistry I*◇	3	
	CHEM 111	General Chemistry Lab I*◇	1	
	MATH 225	Calculus I*◇	4	
	PHYS 211	General Physics I*◇	3	

* Indicates this course may have a prerequisite. Refer to catalog.
 ◇ Indicates this course may count as a Major and Liberal Studies Requirement. Credits only count once toward the 120 credits needed for graduation.
 ♣♣ Student may substitute PHYS 212: Gen. Physics II*◇ for PHYS 213: Gen. Physics III*◇
 Note: All degrees require a minimum of 48 credit hours of upper division courses (39 credits at the 300 level or higher; 9 credit hours can come from 100- or 200-level courses that require a 3-credit prerequisite) and at least half of the major (20 credits minimum) in upper division courses.

ELECTIVES (Total credits to 120 credits) (Major Electives, Other Liberal Studies Electives, Free Electives)				
✓	Course	Title	Cr	Gr

MAJOR REQUIREMENTS (61 credits – 7 included in LS-ST&M)				
✓	Course	Title	Cr	Gr
Core (13 credits)				
	EGEO 101	Physical Geology	3	
	EGEO 201	Earth Materials and Processes*	3	
	EGEO 202	Earth History*	3	
	EGEO 203	Quantitative Methods*	3	
	EGEO 212	Earth History Lab*	1	
Required Related Courses (7 credits – 7 included in LS-ST&M)				
	CHEM 108	General Chemistry II*◇	3	
	CHEM 112	General Chemistry Lab II*◇	1	
	PHYS 213	General Physics III♣♣*◇	3	
Track Major Program (41 Credits) See Below				

ENVIRONMENTAL SCIENCE TRACK REQUIREMENTS (41 credits)				
✓	Course	Title	Cr	Gr
Core Requirements (20 credits)				
	EGEO 121	Meteorology	3	
	EGEO 360	Introduction to Hydrology*	3	
	EGEO 451	Geochemistry*	4	
	BIOL 357	Environmental Microbiology*	4	
	BIOL 401	Ecology*	3	
	G&ES 324	Environmental Law and Policy	3	
Electives (9 credits min.)				
	BIOL 305	Aquatic Plants	3	
	BIOL 306	Freshwater Biomonitoring*	3	
	CHEM 240	Industrial Hygiene*	3	
	CHEM 340	Air Quality Assessment*	4	
	CHEM 370	Water Quality Assessment*	4	
	CHEM 430	Ind. Poll. Contr. Eng. *	3	
	EGEO 231	Aerial Photo. Interpretation*	3	
	EGEO 241	Geomorphology*	3	
	EGEO 327	Structural Geology*	3	
	EGEO 328	Plate Tectonics	3	
	EGEO 340	Air Pollution Meteorology*	3	
	EGEO 448	X-Ray Spectrometry*	3	
	EGEO 453	Geochemistry Lab*	1	
	EGEO 460	Hydrogeology*	3	
	EGEO 476	Geotechniques: Geophysics*	1	
	G&ES 315	Cartography I*	3	
	G&ES 325	Intro Geographic Info Systems*	3	
	G&ES 410	Remote Sensing	3	
	MARS ____	Marine Science Summer Course*		
Required: Internship or Research (3 credits)				
	ENVS 450	Environmental Sci Internship*♣	3	
	ENVS 480	Environmental Syst Analysis*	3	
	♣ Eligibility for an internship requires that students complete 16 credits at the 200 level or above in core and elective courses and a gpa of 2.000 or higher for all core and elective courses			
Required Related Courses (9 credits)				
	BIOL 101	General Biology◇	3	
	CHEM 200	Fund. Organic Chemistry*	3	
	BIOL 325	Biometry	3	