

Bachelor of Science in Geology – Environmental Option

The environmental option is designed to prepare students for employment in environmental geology and to provide a foundation for registration and licensing in the State of Washington. Students selecting this option should consult the faculty adviser early in their program to select courses suitable for the specific career they wish to pursue. Field camp is recommended but not required for this option.

Major: Geology

Option: Environmental — 102-109 credits

Required Geology Courses: 65-66 credits

GEOL 120 Physical Geology - The Solid Earth (5)
GEOL 121 Physical Geology - Surficial Processes (5)
GEOL 122 Historical Geology (5)
GEOL 211 Mineralogy I (4)
GEOL 212 Mineralogy II (4)
GEOL 213 Igneous and Metamorphic Petrology (4)
GEOL 220 Environmental Geology (4)
GEOL 330 Structural Geology I (4)
GEOL 331 Structural Geology II (4)
GEOL 411 Sedimentology and Stratigraphy (4)
GEOL 463 Environmental Geochemistry (5)
GEOL 470 Hydrogeology (4)
GEOL 475 Engineering Geology: Soils (4)

Select two from the following: 9-10 credits

GEOG 410 Geomorphology (5)
GEOL 360 Geologic Hazards (4)
GEOL 462 Principles of Geochemistry (5)
GEOL 465 Analysis of Metals in Environmental Samples (5)

Required Supporting Courses: 37-43 credits

CHEM 151 General Chemistry (5)
CHEM 152 General Chemistry (5)
CHEM 153 General Chemistry (5)
X412.7 Introduction to Geographic Information Systems (3)¹
MATH 161 Calculus I (5)
MATH 162 Calculus II (5)

One additional year selected from Biology, Chemistry, Computer Science, Geography, Geology, Mathematics, or Physics. Selection must be made in consultation with the Geology Department and the courses must be exclusive of those taken as part of the Environmental Science core. (9-15)

Note: GEOL 307 may not be used to fulfill the upper-division electives for the B.S. degree in Geology-Environmental Option. The B.S. major does not require the completion of a minor. Grade requirement—2.0 in each course; 2.5 cumulative average. University graduation requirement: 60 credits upper division.

For further information, contact:

Undergraduate Adviser
Department of Geology
Eastern Washington University
130 Science Building
Cheney, Washington 99004
(509) 359-2286

For general information regarding admission to the University, write to:

Director of Admissions
Eastern Washington University
101 Sutton Hall
Cheney, Washington 99004
(509) 359-2397

¹ Offered by the University of California "Extension-On-Line" system. Discussions underway with EWU Geography Department to develop an in-house equivalent.

BACHELOR OF SCIENCE IN GEOLOGY – ENVIRONMENTAL OPTION
SAMPLE FOUR-YEAR PLAN

	Q U A R T E R			
	F	W	S	
First Year				
GEOL 120, 121, 122	5	5	5	
GECRs (2)	5	5		
CHEM 151, 152, 153	5	5	5	
CPLA 101	1			
ENGL 201 ¹			5	
TOTAL CREDITS	16	15	15	= 46
Second Year				
GECRs (3)	5		10	
MATH 161, 162	5	5		
GEOL 220		4		
GEOL 211, 212, 213	4	4	4	
TOTAL CREDITS	14	13	14	= 41
Third Year				
GEOL 330, 331, 411	4	4	4	
Additional required Geology courses from list	4	4		
Upper-division Cultural Diversity/International Studies		4	4	
Additional year of Science	4	4	4	
TOTAL CREDITS	12	16	12	= 40
Fourth Year				
GEOL 463, 470, 475	5	4	4	
X412.7	3			
ITGS 400		4		
Non-required upper-division courses of your choice (3)	5	5	5	
TOTAL CREDITS	13	13	9	= 35
FOUR-YEAR TOTAL (minimum credits)				162*

¹Presumes student has met the requirements for ENGL 101

*The University requires 180 credits minimum to graduate; 60 credits at the upper division level.
This program presumes the student has met the prerequisites for Math 161.

KEY:

F = Fall Quarter

W = Winter Quarter

S = Spring Quarter