

# MAJOR IN ENVIRONMENTAL GEOCHEMICAL SCIENCE

(71-74 credits)

**Note:** Students must earn a grade of C- or better in all courses required for the EGS major. See the Geology Department's *Advising Guidelines* for additional information.

Code	Title	Credits
<b>Geology Courses (15 Credits)</b>		
GLG201 & GLG211	Physical Geology and Physical Geology Laboratory	4
GLG303	Geomorphology	4
GLG339	Natural Resources and Energy	3
GLG407	Hydrogeology	4
<b>Chemistry Courses (20 Credits)</b>		
CHE201 & CHE211	General Chemistry I and General Chemistry I Lab	4
CHE202 & CHE212	General Chemistry II and General Chemistry II Lab	4
CHE318 & CHE306	Organic Chemistry I and Organic Chemistry I Lab	4
CHE303	Introduction to Analytical Chemistry	4
CHE407	Instrumental Techniques	4
<b>Environmental Geochemical Science Courses (15 Credits)</b>		
EGS370	Environmental Geochemical Science	4
EGS475	Environmental Geochemical Sciences Research Project 1	3
EGS477	Senior Seminar in Environmental Science	1
GLG311 or BIO340	Mineralogy and Crystallography Ecology	4
GLG346 or GEO431	Environmental Impact Assessment Natural Resources: Utilization and Management	3
<b>Cognate Courses (15-16 Credits)</b>		
GEO341	Introduction to Geographic Information Systems	4
MAT251	Calculus I	4
PHY201 & PHY211	General Physics 1 and Physics 1 Laboratory	4
MAT241 or MAT252	Introduction to Statistics Calculus II	3-4
<b>Electives (6-8 Credits)</b>		
Select a minimum of two (2) courses from the following:		6-8
BCM461 & BCM463	Biochemistry 1 and Biochemistry Lab	
BIO293	Biology Selected Topic	
BIO301	Field Biology Fall	
CHE319 & CHE309	Organic Chemistry II and Organic Chemistry II Lab	
CHE321	Physical Chemistry I	
EGG250	Energy and the Environment	
EGS476	Environmental Geochemical Science Research Project 2	
GLG331	Stratigraphy-Sedimentation	

GEO343	Remote Sensing
GLG405	Structure and Tectonics
GLG509	Water Resources Management
Selected topic courses by advisement	
<b>Total Credits</b>	<b>71-74</b>