


ENVIRONMENTAL GEOSCIENCE, EMPHASIS











 - General Education Course

 - Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major


The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at <https://www.marshall.edu/gened/>.


Code	Title	Credit Hours
Core Curriculum		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 229 	Calculus/Analytic Geom I (CT)	5
	Critical Thinking Course	3
<i>Core 2</i>		
ENG 101 	Beginning Composition	3
ENG 201 	Advanced Composition	3
CMM 103  	Fund Speech-Communication	3
MTH 229 	Calculus/Analytic Geom I (CT)	5
	Core II Humanities	3
	Core II Social Science	3
	Core II Fine Arts	3
CHM 211  & CHM 217 	Principles of Chemistry I and Principles of Chem Lab I	5
<i>Additional University Requirements</i>		
	Writing Intensive	3
	Writing Intensive	3
	Multicultural or International	3
GLY 491 	Capstone Experience	2
Major-Specific		
GLY 200  	The Dynamic Earth	3
GLY 210L  	Earth Materials Lab	1
GLY 201 	The Earth Through Time	3
GLY 211L 	Earth Through Time Lab	1
GLY 212 	Geologic Field Methods	3
GLY 313 	Structural Geology	4
GLY 314 	Mineralogy	4
GLY 320L	Geology Lab Techniques	2
GLY 325 	Stratigraphy & Sediment	4
GLY 420	Principles of Geochemistry	3
GLY 423	Sedimentary Petrology	4
GLY 426	Geophysics	3
GLY 455	Hydrogeology	3

GLY 455L	Hydrogeology Laboratory	1
GLY 456	Environmental Geology	4
GLY 457	Engineering Geology	4
GLY 491 	Capstone Experience	2
MTH 229 	Calculus/Analytic Geom I (CT)	5
CHM 211  	Principles of Chemistry I	3
CHM 217 	Principles of Chem Lab I	2
PHY 201  	College Physics I	3
PHY 202  	General Physics I Laboratory	1
PS 410	Remote Sensing w Applications	4
ENG 354	Scientific & Tech Writing	3
GEO 222 	Global Environment Issues (CT)	3
GEO 429	Location Analysis and GIS	4
	Free Elective	3
	Free Elective	4

Major Information





- Students are strongly encouraged to select courses that meet two or more Core or College requirements. For example, a writing intensive literature course could satisfy the College of Science literature requirement as well as the Core II writing intensive requirement.
- Course offerings and course attributes are subject to change semesters. Please consult each semesters schedule of courses for availability and attributes.
- Math is based on an ACT Mathematics score of 27 or higher. Students with an ACT Mathematics score less than 27 will be placed in the appropriate mathematics and science courses.
- The capstone experience (GLY 491 Capstone Experience) is an individualized research project or internship experience requiring a written report and an oral presentation. The capstone requirement may be met alternatively by attending geology summer field camp or by completing the capstone seminar offered each spring (GLY 492 Capstone Experience).



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Four Year Plan



Programs of study offered by the Department of Geology are designed for individuals seeking a career as an earth scientist. The greatest numbers of geologists are employed by natural resource industries. These include metallic and nonmetallic mining companies as well as petroleum, natural gas, and coal companies. This area of emphasis utilizes an interdisciplinary curriculum, which will prepare graduates for careers involving the application of geologic concepts to the solution of environmental problems.

Course	Title	Credit Hours
First Year		
First Semester		
GLY 200  	The Dynamic Earth	3
GLY 210L  	Earth Materials Lab	1

ENG 101 	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
MTH 229 	Calculus/Analytic Geom I (CT)	5
UNI 100	Freshman First Class	1

Credit Hours **16**







Second Semester

GLY 201 	The Earth Through Time	3
GLY 211L 	Earth Through Time Lab	1
CT Designated Course		3
Core II Fine Arts		3
Multicultural/International		3
Free Elective		1

Credit Hours **14**


Second Year

First Semester

CHM 211  	Principles of Chemistry I	3
CHM 217 	Principles of Chem Lab I	2
GLY 212 	Geologic Field Methods	3
GLY 325 	Stratigraphy & Sediment	4
ENG 201 	Advanced Composition	3

Credit Hours **15**






Second Semester

ENG 354	Scientific & Tech Writing	3
GLY 313 	Structural Geology	4
PS 410	Remote Sensing w Applications	4
Writing Intensive		3
Free Elective		3

Credit Hours **17**



Third Year

First Semester

GLY 320L	Geology Lab Techniques	2
GLY 314 	Mineralogy	4
PHY 201  	College Physics I	3
PHY 202  	General Physics I Laboratory	1
GLY 423	Sedimentary Petrology	4
Core II: Social Science		3

Credit Hours **17**


Second Semester

CMM 103  	Fund Speech-Communication	3
GLY 420	Principles of Geochemistry	3
GLY 456	Environmental Geology	4
GLY 426	Geophysics	3

Credit Hours **13**


Fourth Year

First Semester

GLY 491 	Capstone Experience	2
GLY 320L	Geology Lab Techniques	2
GLY 457	Engineering Geology	4
Core II: Humanities		3
Free Elective		3

Credit Hours **14**

Second Semester

GEO 429	Location Analysis and GIS	4
Writing Intensive		3
GEO 222 	Global Environment Issues (CT)	3
GLY 455	Hydrogeology	3
GLY 455L	Hydrogeology Laboratory	1

Credit Hours **14**

Total Credit Hours **120**