






















GEOLOGY, B.S.











 - 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
GLY 200  	The Dynamic Earth	4
& GLY 210L 	and Earth Materials Lab	
<i>Additional University Requirements</i>		
	Writing Intensive	3
	Writing Intensive	3
	Multicultural or International	3
GLY 491 	Capstone Experience	2-4
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 418	Invertebrate Paleontology	3-4
or GLY 426	Geophysics	
GLY 420	Principles of Geochemistry	3
GLY 421	Igneous& Metamorphic Petrology	4
or GLY 423	Sedimentary Petrology	
GLY 455	Hydrogeology	3
GLY 455L	Hydrogeology Laboratory	1
GLY 457	Engineering Geology	4

GLY 491 	Capstone Experience	2-4
or GLY 492 	Capstone Experience	
CHM 211  	Principles of Chemistry I	3
CHM 217 	Principles of Chem Lab I	2
GLY Elective		4
GLY Elective		4
GLY Elective		3
PHY 201  	College Physics I	3
PHY 202  	General Physics I Laboratory	1
MTH 229 	Calculus/Analytic Geom I (CT)	5
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		1


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.
- MTH 229 Calculus/Analytic Geom I (CT) 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).

Areas of Emphasis

- Engineering Geology, Emphasis (<http://catalog.marshall.edu/undergraduate/programs-az/science/geology/geology-bs/engineering-geology-emphasis/>)
- Environmental Geoscience, Emphasis (<http://catalog.marshall.edu/undergraduate/programs-az/science/geology/geology-bs/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.

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. New and challenging careers are also available in environmental and engineering

geology. The majority of graduates in the past few years have found employment with environmental and geotechnical companies.

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
ENG 201	Advanced Composition	3
Core II Fine Arts		3
CMM 103	Fund Speech-Communication	3
Multicultural or International		3
Credit Hours		16
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
CT Designated Course		3
Credit Hours		15
Second Semester		
GLY 313	Structural Geology	4
GLY Elective		4
GLY 427	Fossil Fuels (recommended)	
Writing Intensive		3
Free Elective		3
Credit Hours		14
Third Year		
First Semester		
GLY 314	Mineralogy	4
Core II Social Science		3
Writing Intensive		3
GLY Elective		3-4
GLY 330 or GLY 451	Tectonics or Principles Geomorphology	
Credit Hours		13-14
Second Semester		
GLY 418 or GLY 426	Invertebrate Paleontology or Geophysics	3-4
GLY 421 or GLY 423	Igneous& Metamorphic Petrology or Sedimentary Petrology	4
GLY Elective		4

GLY 456	Environmental Geology (recommended)	
Free Elective		4
Credit Hours		15-16
Fourth Year		
First Semester		
PHY 202	General Physics I Laboratory	1
PHY 201	College Physics I	3
GLY 491	Capstone Experience	2-4
GLY 320L	Geology Lab Techniques	2
GLY 457	Engineering Geology	4
Free Elective		3
Credit Hours		15-17
Second Semester		
GLY 455	Hydrogeology	3
GLY 455L	Hydrogeology Laboratory	1
GLY 420	Principles of Geochemistry	3
Core II Humanities		3
Free Elective		3
Free Elective		3
Credit Hours		16
Total Credit Hours		120-124