


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.

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/>.

Course Requirements


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		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).

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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/>)