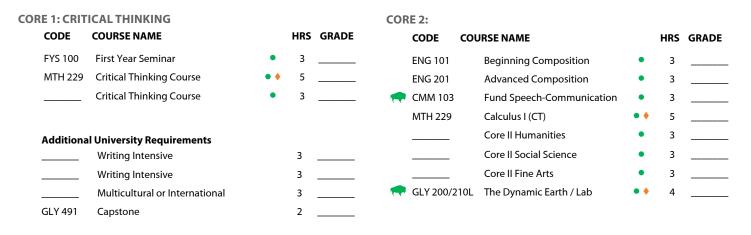
CURRICULUM PLAN COLLEGE OF SCIENCE 2023-2024 GEOLOGY ENGINEERING GEOLOGY

REQUIREMENTS

CORE CURRICULUM 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 marshall.edu/gened.



MAJOR-SPECIFIC

All Biological Science majors are required to take the following courses:

	CODE	COURSE NAME		HRS	GRADE	CODE	COURSE NAME		HRS GR	ADE
-	GLY 200	The Dynamic Earth	• •	3		GLY 451	Principles Geomorphology	•	4	
-	GLY 210L	Earth Materials Lab	• •	1		ENGR 216	Mech of Deformable Bodies	•	3	
	GLY 201	The Earth Through Time	٠	3		GLY 455	Hydrogeology	•	3	
	GLY 211L	Earth Through Time Lab	٠	1		ENGR 213	Statics	•	3	
	MTH 230	Calculus II	٠	4		PHY 211	University Physics I	•	4	
-	CHM 211	Principles of Chemistry I	٠	3		PHY 202	General Physics I Lab	•	1	
	CHM 217	Principles of Chemistry Lab I	•	2		GLY 491	Capstone	•	2	
-	GLY 212	Geologic Field Methods	•	3	•	GLY 456	Environmental Geology	•	4	
-	GLY 325	Statigraphy & Sediment	•	4		GLY 457	Engineering Geology	•	4	
-	GLY 314	Mineralogy	•	4		GLY 420	Principles of Geochemistry	٠	3	
-	GLY 313	Structural Geology	•	4		GLY 455L	Hydrology Lab	•	1	
	GLY 320L	Lab Techniques in Geology	•	2		PHY 204	General Physics II Lab	٠	1	
	GLY 330	Tectonics (or GLY 426)	•	3		PHY 213	University Physics II	٠	4	
	ENG 354	Scientific & Tech Writing	٠	3		ENGR 111	Engineering Computations	•	3	
						CE 322	Geotechnical Engineering	•	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) 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.

Area of Empahsis

Major Requirement

GEOLOGY **NGINEERING GEOLOGY** E

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 specialization has its own specific curriculum and has been added to meet the increasing demand for geoscientists who are trained in the acquisition, interpretation, and use of earth materials (rock, soil, ground water) for the solution of engineering problems. The program provides geologists with specific training that will enable them to effectively interact with, and support, engineers. Its curriculum involves a heavy emphasis on math, physics, and engineering.

			FALL SEMESTER	-				SPRING SEMESTE	ER		
		CODE	COURSE NAME		HRS	GRADE	CODE	COURSE NAME		HRS	GRADE
	•	GLY 200	The Dynamic Earth	٠	3		GLY 201	The Earth Through Time	•	3	
	-	GLY 210L	Earth Materials Lab	•	1		GLY211L	Earth Through Time Lab	•	1	
Ħ		ENG 101	Composition I	•	3		MTH 230	Calculus II	•	4	
NO		MTH 229	Calculus I (CT)	• •	5			Core II Fine Arts	•	3	
щ		ENGR 111	Engineering Computations	٠	3		FYS 100	First Year Seminar	•	3	
ΕA		UNI 100	Freshman First Class		1						
Y											
		TOTAL HO	OURS		16		TOTAL HO	DURS		14	
	Sum	mer Term (op	otional):								

			FALL SEMESTER						SPRING SEMESTER			
		CODE	COURSE NAME		HRS	GRADE		CODE	COURSE NAME		HRS	GRADE
	•	CHM 211	Principles of Chemistry I	٠	3			GLY 330	Tectonics (or GLY 426)	٠	3	
		CHM 217	Principles of Chemistry I Lab	•	2			GLY 313	Structural Geology	•	4	
0	-	GLY 212	Geologic Field Methods	٠	3			ENG 354	Scientific & Tech Writing	٠	3	
ΤW	•	GLY 325	Stratigraphy & Sediment	•	4				Multicultural/International	•	3	
Я		ENG 201	Advanced Composition	٠	3				Writing Intensive	•	3	
ΕA												
X												
	TOTAL HOURS				15			TOTAL HOURS				

Summer Term (optional):

			FALL SEMESTER		SPRING SEMESTER						
		CODE	COURSE NAME		HRS	GRADE	CODE	COURSE NAME		HRS	GRADE
	•	GLY 314	Mineralogy	٠	4		💎 GLY 456	Environmental Geology	•	4	
		GLY 451	Principles of Geomorphology	•	4		ENGR 21	3 Statics	•	3	
E			Core II Social Science (CT)	•	3		ल CMM 103	3 Fund Speech-Communcations	•	3	
THREE			Writing Intensive	•	3			Core II Humanities	•	3	
							GLY 420	Principles of Geochemistry	•	3	
AR											
YΕ											
	TOTAL HOURS				14		TOTAL H	OURS		16	
	Sum	mer Term (or	otional):								

		_	FALL SEMESTER			_		SPRING SEMESTEF	?		_
	_	CODE	COURSE NAME	_	HRS	GRADE	CODE	COURSE NAME		HRS	GRADE
		ENGR 216	Mech of Deformable Bodies	•	3		PHY 213	University Physics II	•	4	
	-	PHY 202	General Physics I Lab	•	1		PHY 204	General Physics II Lab	•	1	
UR	-	PHY 211	University Physics I	٠	4		GLY 455	Hydrogeology	•	3	
0		GLY 491	Capstone	•	2		GLY 455L	Hydrogeology Lab	•	1	
R		GLY 320L	Lab Techniques in GLY	٠	2		CE 322	Geotechnical Engineering	٠	4	
EAR		GLY 457	Engineering Geology	•	4						
Т											
		TOTAL HO	URS		16		TOTAL HO	OURS		13	
	Sumi	mer Term (opt	tional):								