GEOLOGY

ENVIRONMENTAL GEOSCIENCE

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.

ORE 1: CRITICAL THINKING			CORE 2:							
CODE	COURSE NAME		HRS	GRADE		CODE CO	OURSE NAME		HRS	GRADE
FYS 100	First Year Seminar	•	3			ENG 101	Beginning Composition	•	3	
MTH 229	Critical Thinking Course	•	5			ENG 201	Advanced Composition	•	3	
	Critical Thinking Course	•	3		***	CMM 103	Fund Speech-Communication	•	3	
						MTH 229	Calculus I (CT)	• •	5	
Additional University Requirements							Core II Humanities	•	3	
	Writing Intensive		3				Core II Social Science	•	3	
	Writing Intensive		3				Core II Fine Arts	•	3	
	Multicultural or International		3			CHM 211/217	7 Principles of Chemistry I / Lab	• •	5	
GLY 491	Capstone		2							

MAJOR-SPECIFIC

All Geology majors with an area of emphasis in Environmental Geoscience are required to take the following courses:

	CODE	COURSE NAME		HRS	GRADE	CODE	COURSE NAME		HRS	GRADE
***	GLY 200	The Dynamic Earth	•	3		MTH 229	Calculus I (CT)	• •	5 _	
**	GLY 210L	Earth Materials Lab	•	1		CHM 211	Principles of Chemistry I	• •	3 _	
	GLY 201	The Earth Through Time	•	3		CHM 217	Principles of Chemistry Lab I	• •	2 _	
	GLY 211L	Earth Through Time Lab	•	1		PHY 201	College Physics I	•	3 _	
***	GLY 212	Geologic Field Methods	•	3		PHY 202	General Physics I Lab	•	1 _	
***	GLY 313	Structural Geology	•	4		PS 410	Remote Sensing	•	4	
***	GLY 314	Mineralogy	•	4		ENG 354	Scientific & Tech Writing	•	3 _	
	GLY 320L	Lab Techniques in Geology	•	2		GEO 222	Global Environmental Issues	•	3 _	
***	GLY 325	Statigraphy & Sediment	♦	4		GEO 429	Location Analysis and GIS	•	4	
	GLY 420	Principles of Geochemistry	•	4			Free Elective		3 _	
	GLY 423	Sedimentary Petrography	•	4			Free Elective		3 _	
	GLY 426	Geophysics	•	3			Free Elective		2 _	
	GLY 455	Hydrogeology	•	3			Free Elective		1 _	
	GLY 455L	Hydrogeology Lab	•	1						
	GLY 456	Environmental Geology	•	4						
	GLY 457	Engineering Geology	•	4						
	GLY 491	Capstone	•	2						

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.

VIRONMENTAL GEOSCIENCE

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

envir	onme	ntal proble	ms.			-						
			FALL SEMESTER						SPRING SEMESTER			
		CODE	COURSE NAME		HRS	GRADE		CODE	COURSE NAME		HRS	GRADE
运	₹	GLY 200	The Dynamic Earth	•	3			GLY 201	The Earth Through Time	•	3	
	₹	GLY 210L	Earth Materials Lab	•	1			GLY 211L	Earth Through Time Lab	•	1	
		ENG 101	Beginning Composition	•	3				CT Designated Course	•	3	
ONE		FYS 100	First Year Sem Crit Thinking	•	3				Core II Fine Arts	•	3	
H		MTH 229	Calculus I (CT)	•	5				Multicultural/International	•	3	
YEAR		UNI 100	Freshman First Class		1				Free Elective	•	1	
X												
		TOTAL HO	OURS		16			TOTAL HO	DURS		14	
	Sum	mer Term (օլ	otional):									
			FALL SEMESTER						SPRING SEMESTER			
		CODE	COURSE NAME		HRS	GRADE		CODE	COURSE NAME		HRS	GRADE
		CHM 211	Principles of Chemistry I	•	3	GILADE		ENG 354	Scientific & Tech Writing	•	3	CHADE
	(-(-	CHM 217	Principles of Chemistry I Lab	•	2			GLY 313	Structural Geology	•		
	**	GLY 212	Geologic Field Methods	•	3		(*	PS 410	Remote Sensing	•	•	
\geqslant	*	GLY 325	Stratigraphy & Sediment	•	4				Writing Intensive	•	•	
T		ENG 201	Advanced Composition	•	3				Free Elective		3	
YEAR TWO		2110 201	Maraneca composition						Tree Elective			
YE												
		TOTAL HO	OURS		15			TOTAL HO	DURS		17	
	Sum	mer Term (o										
			FALL SEMESTER						SPRING SEMESTER			
		CODE	COURSE NAME			GRADE		CODE	COURSE NAME			GRADE
		GLY 320L	. 3,	•	2		7	CMM 103	Fund Speech-Communcations	•	3	
臼		GLY 314	Mineralogy	•	4			GLY 420	Principles of Geochemistry	•	3	
田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田		PHY 201	College Physics I	•	3			GLY 456	Environmental Geology	•	4	
THREE	1	PHY 202	General Physics I Lab	•	1			GLY 426	Geophysics	•	3	
AR 1		GLY 423	Sedimentary Petrography	•	4							
Ε̈́Α			Core II: Social Science	•	3							
YE												
		TOTAL HOURS mmer Term (optional):			17			TOTAL HO	DURS		13	
	Sum	mer Term (o	otionai <i>j</i> :									
			FALL SEMESTER						SPRING SEMESTER			
		CODE	COURSE NAME		HRS	GRADE		CODE	COURSE NAME		HRS	GRADE
		GLY 491	Capstone	•	2			GEO 429	Location Analysis and GIS	•	4	
		GLY 457	Engineering Geology	•	4				Writing Intensive	•	3	
6												

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GEO 222

GLY 455

GLY 455L

TOTAL HOURS

Global Environmental Issues

Hydrogeology

Hydrogeology Lab

General Education Requirement

YEAR FOUR

Core II: Humanities

Free Elective

Free Elective

TOTAL HOURS

Summer Term (optional):

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

3