CURRICULUM PLAN COLLEGE OF SCIENCE 2024-2025

MY ADVISOR'S NAME IS: _____

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.

CORE 1: CRITICAL THINKING

CODE	COURSE NAME		HRS	GRADE
FYS 100	First Year Seminar	●	3	_____
MTH 229	Critical Thinking Course	●	5	_____
_____	Critical Thinking Course	●	3	_____

Additional University Requirements

_____	Writing Intensive	3	_____
_____	Writing Intensive	3	_____
_____	Multicultural or International	3	_____
GLY 491	Capstone	2	_____

CORE 2:

CODE	COURSE NAME		HRS	GRADE
ENG 101	Beginning Composition	●	3	_____
ENG 201	Advanced Composition	●	3	_____
CMM 103	Fund Speech-Communication	●	3	_____
MTH 229	Calculus I (CT)	● ◆	5	_____
_____	Core II Humanities	●	3	_____
_____	Core II Social Science	●	3	_____
_____	Core II Fine Arts	●	3	_____
CHM 211/217	Principles of Chemistry I / Lab	● ◆	5	

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
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	Lab Techniques in Geology	◆	2	_____
GLY 325	Statigraphy & Sediment	◆	4	_____
GLY 420	Principles of Geochemistry	◆	4	_____
GLY 423	Sedimentary Petrology	◆	4	_____
GLY 426	Geophysics	◆	3	_____
GLY 455	Hydrogeology	◆	3	_____
GLY 455L	Hydrogeology Lab	◆	1	_____
GLY 456	Environmental Geology	◆	4	_____
GLY 457	Engineering Geology	◆	4	_____
GLY 491	Capstone	◆	2	_____

CODE	COURSE NAME		HRS	GRADE
MTH 229	Calculus I (CT)	● ◆	5	_____
CHM 211	Principles of Chemistry I	● ◆	3	_____
CHM 217	Principles of Chemistry Lab I	● ◆	2	_____
PHY 201	College Physics I	◆	3	_____
PHY 202	General Physics I Lab	◆	1	_____
PS 410	Remote Sensing	◆	4	_____
ENG 354	Scientific & Tech Writing	◆	3	_____
GEO 222	Global Environmental Issues	◆	3	_____
GEO 429	Location Analysis and GIS	◆	4	_____
_____	Free Elective		3	_____
_____	Free Elective		3	_____
_____	Free Elective		2	_____
_____	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.
- 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.
- See faculty or advisor for a list of recommended electives.

● General Education Requirement ■ College Requirement ◆ Major Requirement ◆ Area of Emphasis

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.

FOUR YEAR PLAN COLLEGE OF SCIENCE 2024-2025

MY ADVISOR'S NAME IS: _____

GEOLOGY
ENVIRONMENTAL 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 environmental problems.

YEAR ONE

FALL SEMESTER

CODE	COURSE NAME		HRS	GRADE
GLY 200	The Dynamic Earth	◆	3	
GLY 210L	Earth Materials Lab	◆	1	
ENG 101	Beginning Composition	●	3	
FYS 100	First Year Sem Crit Thinking	●	3	
MTH 229	Calculus I (CT)	●	5	
UNI 100	Freshman First Class		1	
TOTAL HOURS			**16**	

SPRING SEMESTER

CODE	COURSE NAME		HRS	GRADE
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	
TOTAL HOURS			**14**	

Summer Term (optional):

YEAR TWO

FALL SEMESTER

CODE	COURSE NAME		HRS	GRADE
CHM 211	Principles of Chemistry I	◆	3	
CHM 217	Principles of Chemistry I Lab	◆	2	
GLY 212	Geologic Field Methods	◆	3	
GLY 325	Stratigraphy & Sediment	◆	4	
ENG 201	Advanced Composition	●	3	
TOTAL HOURS			**15**	

SPRING SEMESTER

CODE	COURSE NAME		HRS	GRADE
ENG 354	Scientific & Tech Writing	◆	3	
GLY 313	Structural Geology	◆	4	
PS 410	Remote Sensing	◆	4	
_____	Writing Intensive	●	3	
_____	Free Elective		3	
TOTAL HOURS			**17**	

Summer Term (optional):

YEAR THREE

FALL SEMESTER

CODE	COURSE NAME		HRS	GRADE
GLY 320L	Lab Techniques in Geology	◆	2	
GLY 314	Mineralogy	◆	4	
PHY 201	College Physics I	◆	3	
PHY 202	General Physics I Lab	◆	1	
GLY 423	Sedimentary Petrology	◆	4	
_____	Core II: Social Science	●	3	
TOTAL HOURS			**17**	

SPRING SEMESTER

CODE	COURSE NAME		HRS	GRADE
CMM 103	Fund Speech-Communcations	●	3	
GLY 420	Principles of Geochemistry	◆	3	
GLY 456	Environmental Geology	◆	4	
GLY 426	Geophysics	◆	3	
TOTAL HOURS			**13**	

Summer Term (optional):

YEAR FOUR

FALL SEMESTER

CODE	COURSE NAME		HRS	GRADE
GLY 491	Capstone	◆	2	
GLY 457	Engineering Geology	◆	4	
_____	Core II: Humanities	●	3	
_____	Free Elective		3	
_____	Free Elective		2	
TOTAL HOURS			**14**	

SPRING SEMESTER

CODE	COURSE NAME		HRS	GRADE
GEO 429	Location Analysis and GIS	◆	4	
_____	Writing Intensive	●	3	
GEO 222	Global Environmental Issues	◆	3	
GLY 455	Hydrogeology	◆	3	
GLY 455L	Hydrogeology Lab	◆	1	
TOTAL HOURS			**14**	

Summer Term (optional):

◆ Area of Emphasis
◆ Major Requirement
■ College Requirement
● General Education Requirement

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.