CURRICULUM PLAN COLLEGE OF SCIENCE 2022-2023

MY ADVISOR'S NAME IS: _____

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.

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	2-4	

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	
GLY 200/210L	The Dynamic Earth/Lab	4	

MAJOR-SPECIFIC

All Geology majors 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	The 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 418	Invertebrate Paleontology (or GLY 426 Geophysics)	3-4	
GLY 420	Principles of Geochemistry	3	
GLY 421	Petrology (or GLY 423 Sedimentary Petrograpohy)	4	
GLY 455	Hydrogeology	3	
GLY 455L	Hydrogeology Lab	1	
GLY 457	Engineering Geology	4	
GLY 491	Capstone	2-4	

CODE	COURSE NAME	HRS	GRADE
CHM 211	Principles of Chemistry I	3	
CHM 217	Principles of Chemistry Lab I	2	
_____	GLY Elective	4	
_____	GLY Elective	4	
_____	GLY Elective	3	
PHY 201	College Physics I	3	
PHY 202	General Physics I Lab	1	
MTH 229	Calculus I (CT)	5	
_____	Free Elective	4	
_____	Free Elective	3	
_____	Free Elective	3	
_____	Free Elective	3	
_____	Free Elective	3	

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.

● 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 2022-2023

MY ADVISOR'S NAME IS: _____

GEOLOGY

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.

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	
GLY211L	The 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	
TOTAL HOURS		**16**	

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	
_____	CT Designated Course	3	
TOTAL HOURS		**15**	

SPRING SEMESTER

CODE	COURSE NAME	HRS	GRADE
GLY 313	Structural Geology	4	
_____	GLY Elective (GLY 427 Recommended)	4	
_____	Writing Intensive	3	
_____	Free Elective	3	
TOTAL HOURS		**14**	

Summer Term (optional):

YEAR THREE

FALL SEMESTER

CODE	COURSE NAME	HRS	GRADE
GLY 314	Mineralogy	4	
_____	Core II Social Science	3	
_____	Writing Intensive	3	
_____	GLY Elective (GLY 330 or 451)	3-4	
TOTAL HOURS		**13-14**	

SPRING SEMESTER

CODE	COURSE NAME	HRS	GRADE
GLY 418	Invertebrate Paleontology (or GLY 426 Geophysics)	3-4	
GLY 421	Petrology (or GLY 423 Fall)	4	
_____	GLY Elective (GLY 456 Rec.)	4	
_____	Free Elective	4	
TOTAL HOURS		**15-16**	

Summer Term (optional):

YEAR FOUR

FALL SEMESTER

CODE	COURSE NAME	HRS	GRADE
PHY 202	General Physics I Lab	1	
PHY 201	College Physics I	3	
GLY 491	Capstone	2-4	
GLY 320L	Lab Techniques in Geology	2	
GLY 457	Engineering Geology	4	
_____	Free Elective	3	
TOTAL HOURS		**15-17**	

SPRING SEMESTER

CODE	COURSE NAME	HRS	GRADE
GLY 455	Hydrogeology	3	
GLY 455L	Hydrogeology Lab	1	
GLY 420	Principles of Geochemistry	3	
_____	Core II Humanities	3	
_____	Free Elective	3	
_____	Free Elective	3	
TOTAL HOURS		**16**	

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.