**ENVIRONMENTAL GEOSCIENCE** 

MY ADVISOR'S NAME IS:

#### 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: CRIT	ICAL THINKING				COR	E 2:				
CODE	COURSE NAME		HRS	GRADE		CODE C	OURSE NAME		HRS	GRAD
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		<b>***</b>	CMM 103	Fund Speech-Communication	•	3	
						MTH 229	Calculus I (CT)	• •	5	
Additiona	al 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 211/21	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
<b>₹</b>	GLY 200	The Dynamic Earth	•	3			MTH 229	Calculus I (CT)	• •	5 _	
<b>₹</b>	GLY 210L	Earth Materials Lab	•	1		<b>**</b>	CHM 211	Principles of Chemistry I	• •	3 _	
	GLY 201	The Earth Through Time	•	3			CHM 217	Principles of Chemistry Lab I	• •	2 _	
dSIS	GLY 211L	Earth Through Time Lab	•	1		<b>**</b>	PHY 201	College Physics I	•	3 _	
Emphasis	GLY 212	Geologic Field Methods	•	3			PHY 202	General Physics I Lab	•	1 _	
5 📻	GLY 313	Structural Geology	•	4			PS 410	Remote Sensing	•	4 _	
Area	GLY 314	Mineralogy	•	4			ENG 354	Scientific & Tech Writing	•	3 _	
	GLY 320L	Lab Techniques in Geology	•	2			GEO 222	Global Environmental Issues	•	3 _	
<b>=</b>	GLY 325	Statigraphy & Sediment	•	4			GEO 429	Location Analysis and GIS	•	4 _	
Major Requirement	GLY 420	Principles of Geochemistry	•	4				Free Elective		3 _	
ה ב	GLY 423	Sedimentary Petrography	•	4				Free Elective		3 _	
E	GLY 426	Geophysics	•	3				Free Elective		2 _	
IMIO	GLY 455	Hydrogeology	•	3				Free Elective		1 _	
	GLY 455L	Hydrogeology Lab	•	1							
<u></u>	GLY 456	Environmental Geology	•	4							
<u>ה</u>	GLY 457	Engineering Geology	•	4							
nhau afi	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
- 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

FOUR YEAR PLAN COLLEGE OF SCIENCE 2022-2023

## **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

MY ADVISOR'S NAME IS:

		FALL SEMESTER						SPRING SEMESTER			
	CODE	COURSE NAME		HRS	GRADE		CODE	COURSE NAME		HRS	GRAD
17	GLY 200	The Dynamic Earth	•	3			GLY 201	The Earth Through Time	<b>*</b>	3	
17	GLY 210L	Earth Materials Lab	•	1			GLY 211L	Earth Through Time Lab	•	1	
	ENG 101	Beginning Composition	•	3				CT Designated Course	•	3	
	FYS 100	First Year Sem Crit Thinking	•	3				Core II Fine Arts	•	3	
	MTH 229	Calculus I (CT)	•	5				Multicultural/International	•	3	
	UNI 100	Freshman First Class		1				Free Elective	•	1	
Sun	TOTAL HO	tional):		16			TOTAL HO			14	
		FALL SEMESTER						SPRING SEMESTER			
		COURSE NAME			GRADE		CODE	COURSE NAME			GRAE
रूर	CHM 211	Principles of Chemistry I	<u> </u>	3			ENG 354	Scientific & Tech Writing	<b>*</b>	3	
	CHM 217 GLY 212	Principles of Chemistry I Lab	<b>Y</b>	2		(Contraction)	GLY 313 PS 410	Structural Geology	<b>Y</b>	4	
		Geologic Field Methods	<u> </u>	3			P5 410	Remote Sensing	<u> </u>	4	
	GLY 325	Stratigraphy & Sediment	*	4				Writing Intensive	•	3	
	ENG 201	Advanced Composition	•	3				Free Elective		3	

			FALL SEMESTER						SPRING SEMESTE	R		
		CODE	COURSE NAME		HRS	GRADE		CODE	COURSE NAME		HRS	GRADE
		GLY 320L	Lab Techniques in Geology	•	2		<b>***</b>	CMM 103	Fund Speech-Communcations	•	3	
F-7	<b>₹</b>	GLY 314	Mineralogy	•	4			GLY 420	Principles of Geochemistry	•	3	
	<b>₹</b>	PHY 201	College Physics I	•	3			GLY 456	Environmental Geology	•	4	
THRE	•	PHY 202	General Physics I Lab	•	1			GLY 426	Geophysics	•	3	
		GLY 423	Sedimentary Petrography	•	4							
AR			Core II: Social Science	•	3							
YE												
		TOTAL HO	URS		17			TOTAL HO	URS		13	
	Sumi	mer Term (op	tional):									

		FALL SEMEST	ER				-	SPRING SEMESTE	ER		
	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	
J. H		Core II: Humanities	•	3			GEO 222	Global Environmental Issues	•	3	
FOUR		Free Elective		3			GLY 455	Hydrogeology	•	3	
ᄶ		Free Elective		2			GLY 455L	Hydrogeology Lab	•	1	
YEAR											
K											
	TOTAL HOURS			14		TOTAL HOURS			14		
	Summer Term (o	ptional):									

#### INVOLVEMENT OPPORTUNITIES

- Student Government Association
- Campus Activity Board
- JMELI
- Commuter Student Advisory Board
- · Club Sports
- Religious Organizations
- Political Organizations
- · Residence Hall Association
- Cultural Organizations
- National Society of Leadership and Success
- Greek Life

#### **RELATED MAJORS**

- Environmental Science
- · Environmental Chemistry
- Education
- · Civil Engineering
- Geography/Meteorology
- Applied Physics

#### **GRADUATION REQUIREMENTS**

- · Have a minimum of 120 credit hours (some colleges or majors require more);
- · Have an overall and Marshall Grade Point Average of 2.00 or higher;
- Have an overall Grade Point Average of 2.00 or higher in the major area of study;
- Have earned a grade of C or better in English 201 or 201H;
- Have met all major(s) and college requirements:
- · Have met the requirements of the Core Curriculum;
- · Have met the residence requirements of Marshall University, including 12 hours of 300/400 level coursework in the student's college (see section entitled "Residence Requirements" in the undergraduate catalogue);
- Be enrolled at Marshall at least one semester of the senior year:
- · Have transferred no more than 72 credit hours from an accredited West Virginia twoyear institution of higher education.

Colleges and specific programs may have unique requirements that are more stringent than those noted above. Students are responsible for staying informed about and ensuring that they meet the requirements for graduation.

This academic map is to be used as a guide in planning your coursework toward a degree. Due to the complexities of degree programs, it is unfortunate but inevitable that an error may occur in the creation of this document. The official source of degree requirements at Marshall University is DegreeWorks available in your myMU portal. Always consult regularly with your advisor.

# GEOLOGY: ENVIRONMENTAL GEOSCIENCE — 2022-2023

### YEAR ONE



Have guestions? Need to talk? You already have a Friend-At-Marshall ready to help you succeed. Find your FAM Peer Mentor here: www.marshall.edu/fam

No need to wait until graduate

school. Discuss undergraduate

research opportunities with faculty

in your major right now.

Join the Marshall Environmental

Science Association or other

organization.

Are you completing enough credits

to graduate on time? Dropping or

failing a class can put you behind.

Use summer terms to quickly get

back on track.

Have you considered adding a minor

or certification? Think about personal

areas of interest that might give you a

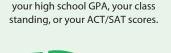
more marketable skill set.

Run for Student Government and

represent your fellow students

while making a long-term

difference on Marshall's Campus.



Stay on the Herd Path and come

to class! Class attendance is more

important to your success than



In order to graduate on time, you need to take an average of 15 credits per semester. Are you on track? Take 15 to Finish!



Take a career self-assessment to help determine what jobs fit your talents and interests. We can get you there.

Get involved! Strengthen your

resume by gaining valuable field

and laboratory experience.

Don't enter your field with zero

experience! Secure an internship

related to your field of study.



Sign up for Handshake! Handshake is the #1 place to launch a career with no connections, experience, or luck required. The platform connects up-and-coming talent with 650,000+ employers.

Attend civic meetings, such as

the school board, neighborhood

associations, city council, or

important state legislative sessions.

Join or create a club or organization

on campus about a particular issue

you care about. Marshall has more

than 200 student organizations.

YEAR TWO

### YEAR THREE



Join professional associations in your field, like: Geological Society of America or American Institute of Professional Geologists.



Think about who can help you grow as a student and a professional (professors, advisors, alumni, etc.) and ask at least one to be your mentor.



Strengthen your resume and enhance your presentation skills. Present what you've learned at an academic conference off campus.



Run for Student Government and represent your fellow students while making a long-term difference on Marshall's Campus.





Are you on track to graduate? Meet with your advisor for your Junior Eval to make sure you know what requirements you have left.



Don't enter your field with zero experience! Meet with your advisor to discuss your internship options.



Conservation and sustainability outreach is available. Join up!



graduate? Meet with your advisor for your Senior Eval to see what requirements you have left.



Want to continue your education and increase your opportunities? Talk to a faculty member about whether graduate school fits your career goals.



Join professional associations in your field, like: Geological Society of America or American Institute of Professional Geologists.



Think about who can help you grow as a student and a professional (professors, advisors, alumni, etc.) and ask at least one to be your mentor.





outreach is available. Join up!



Pursue research and funding opportunities for undergraduates.





TRANSFERABLE SKILLS

Technological Literacy

**ASSOCIATED CAREERS** 

Product Development

· Process Development

· Field Seismologist

· Site Assessment

Civil Engineer

· Drilling Project Manager

Petroleum Technology

· Local/Regional Planner

· Environmental Analysis

· Geotechnical Engineer

Research and Development

• Quality Assurance/Control

Scientific Ability

Adaptability

ASSOCIATED WITH THIS MAJOR

• Ability to Work as Part of a Team

Marshall University College of Science 1 John Marshall Drive Huntington, WV 25755 1-304-696-3170 email address marshall.edu/cos

## YEAR FOUR



This is it! Are you on track to







Be at the top of your professional game! Prepare a final resume and practice your interview skills with a career coach in Career Education.

