# **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.

MY ADVISOR'S NAME IS:

CORE 1: CRITICAL THINKING						CORE 2:					
CODE	COURSE NAME		HRS	GRADE		CODE C	COURSE NAME		HRS	GRAD	
FYS 100	First Year Seminar	•	3			ENG 101	Composition I	•	3		
MTH 229	Critical Thinking Course	•	5			ENG 201	Composition II	•	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	17 Core II Natural/Physical Sci	• •	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	Physical Geology	•	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	Historial Geology	•	3			CHM 217	Principles of Chemistry Lab I	• •	2 _	
lasis		GLY 211L	Historical Geology Lab	•	1		<b>**</b>	PHY 201	College Physics I	•	3 _	
Empna	<b>**</b>	GLY 212	Introduction to Field Methods	•	3		<b>(</b>	PHY 202	General Physics I Lab	•	1 _	
þ	•	GLY 313	Structural Geology	•	4			PS 410	Remote Sensing	•	4 _	
Area	<b>**</b>	GLY 314	Mineralogy	•	4			ENG 354	Scientific & Tech Writing	•	3 _	
		GLY 320L	Lab Techniques in Geology	•	2			GEO 222	Global Environmental Issues	•	3 _	
Į.	<b>**</b>	GLY 325	Statigraphy & Sediment	•	4			GEO 426	Principles of GIS	•	4 _	
equirement		GLY 420	Geochemistry	•	4			GEO 429	Princ of GIS 2-Vector Analysis	•	4 _	
edni		GLY 423	Sedimentary Petrography	•	4				Free Elective		3 _	
Major K		GLY 426	Geophysics	•	3							
₩ •		GLY 455	Hydrogeology	•	3							
		GLY 455L	Hydrogeology Lab	•	1							
ent		GLY 456	Environmental Geology	•	4							
Len Len		GLY 457	Engineering Geology	•	4							
ge kequirement		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 2019-2020

# **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	GRA
1	GLY 200	Physical Geology	•	3		GLY 201	Historical Geology	•	3	
<b>**</b>	GLY 210L	Earth Materials Lab	•	1		GLY211L	Historical Geology Lab	•	1	
	ENG 101	Composition I	•	3			CT Designated Course	•	3	
	FYS 100	First Year Seminar	•	3			Core II Fine Arts	•	3	
	MTH 229	Calculus I (CT)	•	5			Multicultural/International	•	3	
	UNI 100	Freshman First Class		1			Free Elective	•	1	
	TOTAL HOL	URS		16		TOTAL HO	DURS		14	
Sum	TOTAL HOU	ional):		16		TOTAL HO			14	
Sum				16		TOTAL HO	OURS SPRING SEMESTER		14	
Sum	nmer Term (opti	ional):			GRADE	TOTAL HO			_	GRA
Sum	nmer Term (opti	FALL SEMESTER	•		GRADE		SPRING SEMESTER	•	_	GRA
Sum	code	FALL SEMESTER COURSE NAME	* *	HRS	GRADE	CODE	SPRING SEMESTER COURSE NAME	•	_	GRA
Sum	CODE CHM 211	FALL SEMESTER  COURSE NAME  Principles of Chemistry I	•	HRS 3	GRADE	CODE ENG 354	SPRING SEMESTER  COURSE NAME  Scientific & Tech Writing	•	_	GRA
Sum	CODE CHM 211	FALL SEMESTER  COURSE NAME  Principles of Chemistry I  Principles of Chemistry I Lab		<b>HRS</b> 3 2	GRADE	CODE ENG 354 GLY 313	SPRING SEMESTER  COURSE NAME  Scientific & Tech Writing  Structural Geology	•	_	GRA
Sum	CODE CHM 211 CHM 217 GLY 212	FALL SEMESTER  COURSE NAME  Principles of Chemistry I  Principles of Chemistry I Lab  Introduction to Field Methods		<b>HRS</b> 3 2	GRADE	CODE ENG 354 GLY 313	SPRING SEMESTER  COURSE NAME  Scientific & Tech Writing  Structural Geology  Remote Sensing	•	HRS 3 4 4	GRA
Sum	CODE CHM 211 CHM 217 GLY 212 GLY 325	FALL SEMESTER  COURSE NAME  Principles of Chemistry I  Principles of Chemistry I Lab  Introduction to Field Methods  Stratigraphy & Sediment		HRS 3 2 3 4	GRADE	CODE ENG 354 GLY 313	SPRING SEMESTER  COURSE NAME  Scientific & Tech Writing Structural Geology Remote Sensing Writing Intensive	•	HRS 3 4 4	GRA

			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	
E)	<b>**</b>	GLY 314	Mineralogy	•	4			GLY 420	Geochemistry	•	4	
THREE	<b>₹</b>	PHY 201	College Physics I	•	3			GLY 456	Environmental Geology	•	4	
H	<b>**</b>	PHY 202	General Physics I Lab	•	1			GLY 426	Geophysics	•	3	
		GLY 423	Sedimentary Petrography	•	4							
$A_{\rm F}$			Core II: Social Science	•	3							
YEAR												
		TOTAL HO	OURS		17			TOTAL HO	OURS		14	
	Sum	mer Term (op	tional):									

		FALL SEMESTER					SPRING SEMESTER			
	CODE	COURSE NAME		HRS	GRADE	CODE	COURSE NAME		HRS	GRADE
	GLY 491	Capstone	•	2		GEO 429	Princ of GIS 2-Vector Analysis	•	4	
	GEO 426	Principles of GIS	•	4			Writing Intensive	•	3	
O.R.	GLY 320L	Lab Techniques	•	2		GEO 222	Global Environmental Issues	•	3	
$\circ$ I	GLY 457	Engineering Geology	<b>*</b>	4		GLY 455	Hydrogeology	•	3	
규 관		Core II: Humanities	•	3		GLY 455L	Hydrogeology Lab	•	1	
EA										
X										
	TOTAL HO	OURS		15		TOTAL HO	OURS		14	
	Summer Term (op	tional):								

#### 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 - 2019-2020

#### 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.



Stay on the Herd Path and come to class! Class attendance is more important to your success than your high school GPA, your class standing, or your ACT/SAT scores.





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.

Take a pulse check. Know what you need to do every year to keep your grants, scholarships, or federal financial aid.

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.

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.



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!

#### YEAR FOUR



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.



Attend civic meetings, such as the school board, neighborhood associations, city council, or important state legislative sessions.





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.

Join or create a club or organization on campus about a particular issue you care about. Marshall has more than 200 student organizations.



Think about who can help you grow This is it! Are you on track to as a student and a professional graduate? Meet with your advisor (professors, advisors, alumni, etc.) and for your Senior Eval to see what ask at least one to be your mentor. requirements you have left.





Conservation and sustainability outreach is available. Join up!



Pursue research and funding opportunities for undergraduates.



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



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

