ENVIRONMENTAL SCIENCE ENVIRONMENTAL SCIENCE EMPHASIS

CORE CURRICULUM

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend

CORE 1: C	CRITIC	AL THINKING				COR	E 2:				
CODI	E C	OURSE NAME		HRS	GRADE		CODE	COURSE NAME		HRS	GRADE
FYS 1	100 F	First Year Seminar	•	3		(**	ENG 101	Beginning Composition	•	3	
NRE 1	120 (Critical Thinking Course	•	3			ENG 201	Advanced Composition	•	3	
NRE 2	220 (Critical Thinking Course	•	3		(CMM 103	Fund Speech-Communication	•	3	
						**	MTH140	Applied Calculus	• •	3	
Δddit	tional I	Jniversity 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		***	BSC 120/L	Core II Physical/Nat Science	•	4	
NRE 4	191	Capstone		3							
CODI		OURSE NAME	•		GRADE		CODE	COURSE NAME	•		GRADE
CIT 15		Spreadsheets & Database Prin		3	GRADE		NRE 425	Water Policy and Regulations	•	3	GRADE
■ MTH		Applied Calculus	• •	3			NRRM 200	, ,	•	4	
NRE 1		Discussion in Environ Science (CT)	• •	3			NRE 323	Assessment II: Aquatic Ecology	•	4	
NRE 2		Human Dimensions of Nat Res (CT)	• •	3			NRE 423	GIS and Data Systems	•	3	
CHM		Principles of Chemistry 1	•	3			NRE 470	Internship or Senior Project	• •	3	
CHM		Principles of Chemistry 1 Lab	•	2			or 491				
СНМ	212 F	Principles of Chemistry II	•	3			NRE 490	ES/NRRM Capstone Prep	•	3	
CHM	218 F	Principles of Chemistry II Lab	•	2							
AREA OF	EMP/	AHSIS-SPECIFIC									
		n to add an area of empahsis in Envi	ronmer			ke the f	3				
COE		COURSE NAME			GRADE		CODE	COURSE NAME			GRADI
BSC 1	·	Principles of Biology I / Lab	•	4			GLY 200	The Dynamic Earth	•	3	
BSC 1	121/L	Principles of Biology II / Lab	•	4			GLY 210L	Earth Materials Lab	•	1	
PHY 2	201	College Physics I	•	3				Major Elective	•	4	

***	BSC 120/L	Principles of Biology I / Lab	•	4	 GLY 200	The Dynamic Earth	•	3	
	BSC 121/L	Principles of Biology II / Lab	•	4	 GLY 210L	Earth Materials Lab	•	1	
	PHY 201	College Physics I	•	3	 	Major Elective	•	4	
***	PHY 202	College Physics I Lab	•	1	 	Major Elective	•	3	
	PHY 203	College Physics II	•	3	 	Major Elective	•	3	
	PHY 204	College Physics II Lab	•	1	 	Major Elective	•	3	
	BSC 320	Principles of Ecology	•	4	 	Major Elective	•	3	
	NRE 212	Energy	•	3	 	Free Elective		3	
	NRE 322	Assess I: Terrestrial Systems	•	4	 	Free Elective		3	

MAJOR INFORMATION

- In addition to the Core General Education requirements, the College of Science requires 3 hours of Calculus, 8 additional hours of Natural or Physical Science, and 40 hours of upper level credit.
- Coursework listed as "elective" may vary for each student. Students are encouraged to use elective hours toward a minor or toward prerequisities. 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 Core II Humanities requirement as well as the University 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 24 or higher. Students with an ACT Mathematics score less than 24 will be placed in the appropriate mathematics and science courses.
- Electives: In consultation with the COS advisors, students will select electives from the College of Science offerings best suited to prepare students to apply for professional credentials as a certified ecologist, certified wildlife biologist, or certified fisheries professional. Once a student has satisfied all of the requirements for one of these certifications, he or she should select additional electives in consultation with NRE/COS advisers to reach 120 credit hours required for graduation. Additional electives may be used to satisfy general education requirements (e.g., writing intensive) and/or to fulfill the requirements of a second major, minor, or certificate.

FOUR YEAR PLAN COLLEGE OF SCIENCE 2023-2024

TOTAL HOURS

nmer Term (optional):

ENVIRONMENTAL SCIENCE ENVIRONMENTAL SCIENCE EMPHASIS

The Bachelor of Science in Environmental Science degree is an integrated program requiring math, communication, and environmental studies courses and basic science courses from Geology, Biology, Chemistry, and Physics departments. The integrated coverage of broad topics prepare students for the complex problems

MY ADVISOR'S NAME IS:

		FALL SEMESTER						SPRING SEMESTER			
	CODE	COURSE NAME		HRS	GRADE		CODE	COURSE NAME		HRS	GRA
	CIT 150	Spreadsheets & Database Prin	•	3			ENG 201	Advanced Composition	•	3	
	NRE 120	Discussions in Environ Science (CT)	•	3		•	BSC 120/L	Principles of Biology I / Lab	•	4	
1	MTH 140	Applied Calculus	• •	3			GLY 200	The Dynamic Earth	•	3	
₹	ENG 101	Beginning Composition	•	3			GLY 210L	Earth Materials Lab	•	1	
	FYS 100	First Year Sem Crit Thinking	•	3			NRE 220	Human Dimensions of Nat Res (CT)	• •	3	
	UNI 100	Freshman First Class		1							
	TOTAL HO	DURS		16			TOTAL HO	URS		14	
Sum	nmer Term (op	otional):									
		FALL SEMESTER						SPRING SEMESTER			
	CODE	COURSE NAME			GRADE		CODE	COURSE NAME		HRS	GR/
(₹	CHM 211	Principles of Chemistry I	•	3			BSC 121/L	Principles of Biology II / Lab	•	4	
1	CHM 217	Principles of Chemistry I Lab	•	2		100	CHM 212	Principles of Chemistry II	•	3	
	NRE 212	Energy	•	3			CHM 218	Principles of Chemistry II Lab	•	2	
		Core II Fine Arts	•	3			NRRM 200	Analytical Methods: Statistics	•	4	
		Core II Social Science (MC/I)	•	3				Core II Humanities (WI)	•	3	
	TOTAL HO	DURS		14			TOTAL HO	URS		16	
Sum	TOTAL HO			14			TOTAL HO	URS		16	
Sum				14			TOTAL HO	URS SPRING SEMESTER		16	
Sum		otional):		_	GRADE						GR/
Sum	nmer Term (op	otional): FALL SEMESTER	•	_	GRADE			SPRING SEMESTER	•		GR#
	nmer Term (op	FALL SEMESTER COURSE NAME	•	HRS	GRADE		CODE	SPRING SEMESTER	•	HRS	GR/
•	CODE NRE 323	FALL SEMESTER COURSE NAME Assessment II: Aquatic Ecology		HRS 4	GRADE		CODE NRE 490	SPRING SEMESTER COURSE NAME ES/NRRM Capstone Prep	• •	HRS 3	GRA
•	CODE NRE 323 NRE 423	FALL SEMESTER COURSE NAME Assessment II: Aquatic Ecology GIS and Data Systems		HRS 4 3	GRADE		CODE NRE 490 NRE 322	SPRING SEMESTER COURSE NAME ES/NRRM Capstone Prep Assess I: Terrestrial Systems	•	HRS 3 4	GRA
•	CODE NRE 323 NRE 423 PHY 201	FALL SEMESTER COURSE NAME Assessment II: Aquatic Ecology GIS and Data Systems College Physics I	•	HRS 4 3	GRADE		CODE NRE 490 NRE 322 PHY 203	SPRING SEMESTER COURSE NAME ES/NRRM Capstone Prep Assess I: Terrestrial Systems College Physics II	•	HRS 3 4	GRA
•	CODE NRE 323 NRE 423 PHY 201	FALL SEMESTER COURSE NAME Assessment II: Aquatic Ecology GIS and Data Systems College Physics I College Physics I Lab	•	HRS 4 3 3 1	GRADE		CODE NRE 490 NRE 322 PHY 203 PHY 204	SPRING SEMESTER COURSE NAME ES/NRRM Capstone Prep Assess I: Terrestrial Systems College Physics II College Physics II Lab	•	HRS 3 4 3 1	GRA
•	CODE NRE 323 NRE 423 PHY 201	FALL SEMESTER COURSE NAME Assessment II: Aquatic Ecology GIS and Data Systems College Physics I College Physics I Lab Free Elective	•	HRS 4 3 3 1	GRADE		CODE NRE 490 NRE 322 PHY 203 PHY 204	SPRING SEMESTER COURSE NAME ES/NRRM Capstone Prep Assess I: Terrestrial Systems College Physics II College Physics II Lab Fund Speech-Communications Writing Intensive	•	HRS 3 4 3 1 3	GRA
**	CODE NRE 323 NRE 423 PHY 201 PHY 202	FALL SEMESTER COURSE NAME Assessment II: Aquatic Ecology GIS and Data Systems College Physics I College Physics I Lab Free Elective	•	HRS 4 3 3 1 3	GRADE	•	CODE NRE 490 NRE 322 PHY 203 PHY 204 CMM 103	SPRING SEMESTER COURSE NAME ES/NRRM Capstone Prep Assess I: Terrestrial Systems College Physics II College Physics II Lab Fund Speech-Communications Writing Intensive	•	HRS 3 4 3 1 3 3	GRA
***	CODE NRE 323 NRE 423 PHY 201 PHY 202 TOTAL HO	FALL SEMESTER COURSE NAME Assessment II: Aquatic Ecology GIS and Data Systems College Physics I College Physics I Lab Free Elective DURS DURS DITIONAL SEMESTER	•	HRS 4 3 3 1 1 3		**	CODE NRE 490 NRE 322 PHY 203 PHY 204 CMM 103 TOTAL HO	SPRING SEMESTER COURSE NAME ES/NRRM Capstone Prep Assess I: Terrestrial Systems College Physics II College Physics II Lab Fund Speech-Communications Writing Intensive URS SPRING SEMESTER	•	HRS 3 4 3 1 3 3	GRA
***	CODE NRE 323 NRE 423 PHY 201 PHY 202 TOTAL HC	FALL SEMESTER COURSE NAME Assessment II: Aquatic Ecology GIS and Data Systems College Physics I College Physics I Lab Free Elective DURS ptional): FALL SEMESTER COURSE NAME	•	HRS 4 3 3 1 1 3	GRADE	•	CODE NRE 490 NRE 322 PHY 203 PHY 204 CMM 103 TOTAL HO	SPRING SEMESTER COURSE NAME ES/NRRM Capstone Prep Assess I: Terrestrial Systems College Physics II College Physics II Lab Fund Speech-Communications Writing Intensive	•	HRS 3 4 3 1 3 3	
***	CODE NRE 323 NRE 423 PHY 201 PHY 202 TOTAL HO	FALL SEMESTER COURSE NAME Assessment II: Aquatic Ecology GIS and Data Systems College Physics I College Physics I Lab Free Elective DURS DURS DITIONAL SEMESTER	•	HRS 4 3 3 1 1 3			CODE NRE 490 NRE 322 PHY 203 PHY 204 CMM 103 TOTAL HOL	SPRING SEMESTER COURSE NAME ES/NRRM Capstone Prep Assess I: Terrestrial Systems College Physics II College Physics II Lab Fund Speech-Communications Writing Intensive URS SPRING SEMESTER	• • •	HRS 3 4 3 1 3 3 177	
***	CODE NRE 323 NRE 423 PHY 201 PHY 202 TOTAL HO	FALL SEMESTER COURSE NAME Assessment II: Aquatic Ecology GIS and Data Systems College Physics I College Physics I Lab Free Elective DURS ptional): FALL SEMESTER COURSE NAME	•	HRS 4 3 3 1 3 3 1 4 HRS			CODE NRE 490 NRE 322 PHY 203 PHY 204 CMM 103 TOTAL HOL	SPRING SEMESTER COURSE NAME ES/NRRM Capstone Prep Assess I: Terrestrial Systems College Physics II College Physics II Lab Fund Speech-Communications Writing Intensive URS SPRING SEMESTER COURSE NAME	•	HRS 3 4 3 1 3 3 177	
***	CODE NRE 323 NRE 423 PHY 201 PHY 202 TOTAL HO Omer Term (op	FALL SEMESTER COURSE NAME Assessment II: Aquatic Ecology GIS and Data Systems College Physics I College Physics I Lab Free Elective DURS DURS DUINS DURS DUINS DURS DURS DURS DURS DURS DURS DURS DUR	•	HRS 4 3 3 1 3 1 4 HRS			CODE NRE 490 NRE 322 PHY 203 PHY 204 CMM 103 TOTAL HOL	SPRING SEMESTER COURSE NAME ES/NRRM Capstone Prep Assess I: Terrestrial Systems College Physics II College Physics II Lab Fund Speech-Communications Writing Intensive URS SPRING SEMESTER COURSE NAME	•	HRS 3 4 3 1 3 3 177	

TOTAL HOURS

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

- Biomechanics
- Athletic Training Education
- Geology
- Geography
- · Environmental Science

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 201 H;
- · 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.

ENVIRONMENTAL SCIENCE — 2023-2024

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, SCUBA Club, 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 THREE



Join professional associations in your field, like: American Fisheries Society, Ecological Society of America, Association of Southeastern Biologists.



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.

This is it! Are you on track to

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: American Fisheries

Society, Ecological Society of

America, Association of Southeastern

Biologists.



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.



YEAR TWO

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 the Marshall Environmental Science Association, SCUBA Club, or other organization.



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.





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

Environmental Analysis

Water/Wetlands Manager

· Chemical Engineer

· Land Use Manager

Conservationist

· Quality Assurance/Control

Scientific Ability

Adaptability

Analysis

Marketing

ASSOCIATED WITH THIS MAJOR

· Oral and Written Communication Skills

· Ability to Work as Part of a Team

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