ENVIRONMENTAL SCIENCE APPLIED ENVIRONMENTAL

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:

CO	RE 1: CRIT	ICAL THINKING				COR	E 2:				
	CODE	COURSE NAME		HRS	GRADE		CODE	COURSE NAME		HRS	GRADI
	FYS 100	First Year Seminar	•	3		(1	ENG 101	Beginning Composition	•	3	
	NRE 220	Critical Thinking Course	•	3			ENG 201	Advanced Composition	•	3	
	NRE 120	Critical Thinking Course	•	3		***	CMM 103	Fund Speech-Communication	•	3	
						(**	MTH140	Applied Calculus	• •	3	
	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		***	BSC 120 o	r Principles of Biology or Living	•	4	
	NRE 491	Capstone		3			NRE 111	Systems			
	JOR-SPEC	CIFIC tal Sciences majors are required to ta	ike the fo	llowin	a courses:						
	CODE	COURSE NAME			GRADE		CODE	COURSE NAME		HRS	GRAD
	CIT 150	Spreadsheets & Database Prin	•	3			CHM 218	Principles of Chemistry II Lab	•	2	

**	CHM 212	Principles of Chemistry II

CHM 211 Principles of Chemistry I

CHM 217 Principles of Chemistry I Lab

MTH 140 Applied Calculus

NRE 220

NRE 120 Discussion in Environ Science (CT)

Human Dimensions of Nat Res (CT)

AREA OF EMPHASIS-SPECIFIC Students who wish to add an area of emphasis in Applied Environmental must take the following courses:

CODE	COURSE NAME		HRS	GRADE	CODE	COURSE NAME		HRS	GRADE
BSC 120/L or	Principles of Biology I / Lab or	• •	4		NRE 322	Assess I: Terrestrial Systems	•	4	
NRE 111	Living Systems					Major Elective	•	3	
NRE 212 or	Energy or College Physics	•	3-4			Major Elective	•	3	
PHY 201/202						Major Elective	•	3	
GLY 200	The Dynamic Earth	•	3			Major Elective	•	3	
GLY 210L	Earth Materials Lab	•	1			Major Elective	•	3	
CIT 260	Intrumentation	•	3			Major Elective	•	3	
CIT 264	Technology Foundations	•	3			Free Elective		3	
NRE 320	Nature Enviro Problems	•	3			Free Elective		1	
NRE 321	Resol Environ Problems	•	3					•	

4 __

MAJOR INFORMATION

NRE 435

• 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.

Biomonitoring

- Coursework listed as "elective" may vary for each student. Students are encouraged to use elective hours toward a 2nd minor or toward prerequisites.
- 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 each semester. Please consult each semester's 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 prerequisite mathematics and science courses.

NRRM 200 Analytical Methods: Statistics

GIS and Data Systems

Assessment II: Aquatic Ecology

Internship or Senior Project

Water Policy and Regulations

ES/NRRM Capstone Prep

NRE 323

NRE 423

NRE 470

or 491

NRE 490

NRE 425

• 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 the 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

Summer Term (optional):

ENVIRONMENTAL SCIENCE APPLIED ENVIRONMENTAL

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 prepares students for the complex problems facing a modern world. Areas of Emphasis help focus student efforts toward individual goals and interests with consideration to obtaining rewarding careers in the

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		***	CMM 103	Fund Speech-Communications	•	3	
		NRE 120	Discussions in Environ Science (CT)	• •	3		***	BSC 120/L	Principles of Biology I / Lab or	• •	4	
9	~	MTH 140	Applied Calculus	• •	3			or NRE 111	Living Systems			
		ENG 101	Beginning Composition	•	3			GLY 200	The Dynamic Earth	•	3	
		FYS 100	First Year Seminar	•	3			GLY 210L	Earth Materials Lab	•	1	_
uwa 1		UNI 100	Freshman First Class		1			NRE 220	Human Dimensions of Nat Res (CT)	• •	3	
	TOTAL HOURS				16 TOTAL HOURS				JRS		14	
	Sumr	mer Term (op	tional):									
			FALL SEMESTER						SPRING SEMESTER			
		CODE	COURSE NAME		HRS	GRADE		CODE	COURSE NAME		HRS	GR
	7	CHM 211	Principles of Chemistry I	•	3			NRE 212 or	Energy or College Physics	•	3-4	
		CHM 217	Principles of Chemistry I Lab	•	2			PHY 201/20	2			
		ENG 201	Advanced Composition	•	3		***	CHM 212	Principles of Chemistry II	•	3	_
) }			Core II Fine Arts	•	3		•	CHM 218	Principles of Chemistry II Lab	•	2	_
			Core II Social Science (M/I)	•	3			NRRM 200	Analytical Methods: Statistics	•	4	_
T TOTAL			Free Elective		1			CIT 264	Technology Foundations	•	3	_
ı		TOTAL HO	URS		15			TOTAL HOU	JRS		15-16	
	Sumr	mer Term (op	tional):									
			FALL SEMESTER						SPRING SEMESTER			
		CODE	COURSE NAME		HRS	GRADE		CODE (COURSE NAME		HRS	GR
	**	NRE 323	Assessment II: Aquatic Ecology	•	4			NRE 322	Assess I: Terrestrial Systems	•	4	
, [**	NRE 423	GIS and Data Systems	•	3			NRE 321	Resol Environ Problems	•	3	
		CIT 260	Intrumentation	•	3			NRE 490	ES/NRRM Capstone Prep	•	3	
		NRE 320	Nature Enviro Problems	•	3				Major Elective	•	3	
			Humanities (WI)	•	3				Major Elective	•	3	
4												
년 1												
	TOTAL HOURS			16			TOTAL HOU	JRS		16		
Summer Term (optional):												
			FALL SEMESTER						SPRING SEMESTER			
					HRS	GRADE		CODE (COURSE NAME		HRS	GR.
		CODE	COURSE NAME					NRE 470	Internship or Senior Project			
		CODE NRE 425	COURSE NAME Water Policy and Regulations	•	3				internship of Senior Project	• •	3	
				•	3			or 491	internship of Senior Project	• •	3	
			Water Policy and Regulations						Biomonitoring	•	3	
			Water Policy and Regulations Major Elective		3			or 491	,	•		
			Water Policy and Regulations Major Elective Major Elective		3			or 491	Biomonitoring	•	3	

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

- Mechanical Engineering
- Civil Engineering
- Safety Technology
- Computer Science
- Chemistry
- Biology

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 twovear 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.

APPLIED ENVIRONMENTAL SCIENCE — 2023-2024

YEAR ONE



Have questions? 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



Have you considered adding a minor or certification? Think about personal areas of interest that might give you a more marketable skill set.



Join the Marshall Environmental Science Association, SCUBA Club, 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 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.

Strengthen your resume and

enhance your presentation skills.

Present what you've learned at an

academic conference off campus.

Don't enter your field with zero

experience! Secure an internship

related to your field of study.

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

Attend civic meetings, such as

the school board, neighborhood

associations, city council, or

important state legislative sessions.

Join the Marshall Environmental

Science Association, SCUBA Club, or

other organization.

YEAR TWO

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.



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.



Take a Community Based Learning (CBL) class that connects course content to the community. Stay engaged and make a difference.



YEAR FOUR



requirements you have left.



represent your fellow students while making a long-term difference on Marshall's Campus.



Society, Ecological Society of America, Association of Southeastern



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.



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



Volunteer on a research project for valuable experience.





TRANSFERABLE SKILLS

Scientific Knowledge

Organizational Skills

· Attention to Detail

Land Use Manager

· Fishery Manager

Conservationist

ASSOCIATED CAREERS

· Water/Wetlands Manager

· Forestry and Wildlife Manager

Adaptability

Technological Literacy

· Ability to Work as Part of a Team

ASSOCIATED WITH THIS MAJOR

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



This is it! Are you on track to graduate? Meet with your advisor for your Senior Eval to see what



Run for Student Government and



Join professional associations in your field, like: American Fisheries



Biologists.



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