CURRICULUM PLAN COLLEGE OF SCIENCE 2024-2025

ENVIRONMENTAL SCIENCE CONSERVATION AND WILDLIFE

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: CRITICAL THINKING

CODE	COURSE NAME	HRS	GRADE
FYS 100	First Year Seminar	3	
NRE 220	Critical Thinking Course	3	
NRE 120	Critical Thinking Course	3	

Additional University Requirements

_____	Writing Intensive	3	
_____	Writing Intensive	3	
_____	Multicultural or International	3	
NRE 491	Capstone	3	

CORE 2:

CODE	COURSE NAME	HRS	GRADE
ENG 101	Beginning Composition	3	
ENG 201	Advanced Composition	3	
CMM 103	Fund Speech-Communication	3	
MTH140	Applied Calculus	3	
_____	Core II Humanities	3	
_____	Core II Social Science	3	
_____	Core II Fine Arts	3	
BSC 120/L	Principles of Biology	4	

MAJOR-SPECIFIC

All Environmental Sciences majors are required to take the following courses:

CODE	COURSE NAME	HRS	GRADE
CIT 150	Spreadsheets & Database Prin	3	
MTH 140	Applied Calculus	3	
NRE 120	Discussion in Environ Science (CT)	3	
NRE 220	Human Dimensions of Nat Res (CT)	3	
CHM 211	Principles of Chemistry I	3	
CHM 217	Principles of Chemistry I Lab	2	
CHM 212	Principles of Chemistry II	3	
CHM 218	Principles of Chemistry II Lab	2	

CODE	COURSE NAME	HRS	GRADE
NRRM 200	Analytical Methods: Statistics	4	
NRE 323	Assessment II: Aquatic Ecology	4	
NRE 423	GIS and Data Systems	3	
NRE 425	Water Policy and Regulations	3	
NRE 470 or 491	Internship or Senior Project	3	
NRE 490	ES/NRRM Capstone Prep	3	

AREA OF EMPHASIS-SPECIFIC

Students who wish to add an area of emphasis in Conservation and Wildlife must take the following courses:

CODE	COURSE NAME	HRS	GRADE
BSC 120/L	Principles of Biology I / Lab	4	
BSC 121/L	Principles of Biology II / Lab	4	
PHY 201	College Physics	3	
PHY 202	College Physics	1	
PHY 203	College Physics	3	
PHY 204	College Physics	1	
BSC 320 or NRE 322	Principles of Ecology or Assessment I: Terrestrial Systems	4	
_____	Major Elective	4	
_____	Major Elective	4	

CODE	COURSE NAME	HRS	GRADE
_____	Major Elective	3	
_____	Major Elective	3	
_____	Major Elective	3	
_____	Free Elective	3	
_____	Free Elective	3	
_____	Free Elective	3	
_____	Free Elective	2	
_____	Free Elective	2	

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 2nd 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 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 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 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.

Area of Empahsis · Major Requirement · College Requirement · General Education Requirement

Milestone Course: This is a key success marker for your major. See your advisor to discuss importance of this course in your plan of study.

FOUR YEAR PLAN COLLEGE OF SCIENCE 2024-2025

ENVIRONMENTAL SCIENCE CONSERVATION AND WILDLIFE

MY ADVISOR'S NAME IS: _____

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 facing a modern world. Areas of Emphasis help focus student efforts toward individual goals and interests with consideration to obtaining rewarding careers in the fields of environmental science or conservation or pursuing advanced studies.

YEAR ONE

FALL SEMESTER					SPRING SEMESTER				
CODE	COURSE NAME		HRS	GRADE	CODE	COURSE NAME		HRS	GRADE
CIT 150	Spreadsheets & Database Prin		3		ENG 201	Advanced Composition		3	
NRE 120	Discussions in Environ Science (CT)		3		CMM 103	Fund Speech-Communications		3	
MTH 140	Applied Calculus		3		BSC 120/L	Principles of Biology I / Lab		4	
ENG 101	Beginning Composition		3		NRE 220	Human Dimensions of Nat Res (CT)		3	
FYS 100	First Year Sem Crit Thinking		3		_____	Core II Humanities (WI)		3	
UNI 100	Freshman First Class		1						
TOTAL HOURS			**16**		**TOTAL HOURS**			**16**	

Summer Term (optional):

YEAR TWO

FALL SEMESTER					SPRING SEMESTER				
CODE	COURSE NAME		HRS	GRADE	CODE	COURSE NAME		HRS	GRADE
CHM 211	Principles of Chemistry I		3		BSC 121/L	Principles of Biology II / Lab		4	
CHM 217	Principles of Chemistry I Lab		2		CHM 212	Principles of Chemistry II		3	
_____	Free Elective		3		CHM 218	Principles of Chemistry II Lab		2	
_____	Core II Fine Arts		3		NRRM 200	Analytical Methods: Statistics		4	
_____	Core II Social Science (M/I)		3		_____	Free Elective		3	
TOTAL HOURS			**14**		**TOTAL HOURS**			**16**	

Summer Term (optional):

YEAR THREE

FALL SEMESTER					SPRING SEMESTER				
CODE	COURSE NAME		HRS	GRADE	CODE	COURSE NAME		HRS	GRADE
NRE 323	Assessment II: Aquatic Ecology		4		BSC 320 or NRE 322	Principles of Ecology or Assessment I: Terrestrial Systems		4	
NRE 423	GIS and Data Systems		3		PHY 203	College Physics II		3	
PHY 201	College Physics I		3		PHY 204	General Physics II Lab		1	
PHY 202	General Physics I Lab		1		NRE 490	ES/NRRM Capstone Prep		3	
_____	Major Elective		4		_____	Writing Intensive		3	
TOTAL HOURS			**15**		**TOTAL HOURS**			**14**	

Summer Term (optional):

YEAR FOUR

FALL SEMESTER					SPRING SEMESTER				
CODE	COURSE NAME		HRS	GRADE	CODE	COURSE NAME		HRS	GRADE
NRE 425	Water Policy and Regulations		3		NRE 470 or 491	Internship or Senior Project		3	
_____	Major Elective		3		_____	Major Elective		4	
_____	Major Elective		3		_____	Major Elective		3	
_____	Free Elective		3		_____	Major Elective		3	
_____	Free Elective		2		_____	Free Elective		2	
TOTAL HOURS			**14**		**TOTAL HOURS**			**15**	

Summer Term (optional):

Area of Empahsis · Major Requirement · College Requirement · General Education Requirement

Milestone Course: This is a key success marker for your major. See your advisor to discuss importance of this course in your plan of study.

CONSERVATION AND WILDLIFE — 2024-2025

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 two-year 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.

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

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!

No need to wait until graduate school. Discuss undergraduate research opportunities with faculty in your major right now.

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

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

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

YEAR TWO

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.

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

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

Get involved! Strengthen your resume by gaining valuable field and laboratory experience.

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

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.

YEAR THREE

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.

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.

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

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

Conservation and sustainability outreach is available. Join up!

YEAR FOUR

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

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.

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

Conservation and sustainability outreach is available. Join up!

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

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 ASSOCIATED WITH THIS MAJOR

- Scientific Knowledge
- Organizational Skills
- Technological Literacy
- Adaptability
- Ability to Work as Part of a Team
- Attention to Detail

ASSOCIATED CAREERS

- Land Use Manager
- Water/Wetlands Manager
- Fishery Manager
- Forestry and Wildlife Manager
- Conservationist

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