

ENVIRONMENTAL SCIENCE CONSERVATION AND WILDLIFE

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	CODE	COURSE NAME		HRS	GRADE
CIT 150	Spreadsheets & Database Prin	◆	3	_____	NRRM 200	Analytical Methods: Statistics	◆	4	_____
MTH 140	Applied Calculus	●◆	3	_____	NRE 323	Assessment II: Aquatic Ecology	◆	4	_____
NRE 120	Discussion in Environ Science (CT)	●◆	3	_____	NRE 423	GIS and Data Systems	◆	3	_____
NRE 220	Human Dimensions of Nat Res (CT)	●◆	3	_____	NRE 425	Water Policy and Regulations	◆	3	_____
CHM 211	Principles of Chemistry I	◆	3	_____	NRE 470	Internship or Senior Project	●◆	3	_____
CHM 217	Principles of Chemistry I Lab	◆	2	_____	or 491				
CHM 212	Principles of Chemistry II	◆	3	_____	NRE 490	ES/NRRM Capstone Prep	◆	3	_____
CHM 218	Principles of Chemistry II Lab	◆	2	_____					

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	CODE	COURSE NAME		HRS	GRADE
BSC 120/L	Principles of Biology I / Lab	◆	4	_____	_____	Major Elective	◆	3	_____
BSC 121/L	Principles of Biology II / Lab	◆	4	_____	_____	Major Elective	◆	3	_____
PHY 201	College Physics	◆	3	_____	_____	Major Elective	◆	3	_____
PHY 202	College Physics	◆	1	_____	_____	Major Elective	◆	3	_____
PHY 203	College Physics	◆	3	_____	_____	Free Elective		3	_____
PHY 204	College Physics	◆	1	_____	_____	Free Elective		3	_____
BSC 320 or	Principles of Ecology or	◆	4	_____	_____	Free Elective		3	_____
NRE 322	Assessment I: Terrestrial Systems				_____	Free Elective		2	_____
_____	Major Elective	◆	4	_____	_____	Free Elective		2	_____
_____	Major Elective	◆	4	_____					

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 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 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 advisors 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 Emphasis

◆ 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.

ENVIRONMENTAL SCIENCE CONSERVATION AND WILDLIFE

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	Principles of Ecology or	💧	4	_____
	🌳 NRE 423	GIS and Data Systems	◆	3	_____	NRE 322	Assessment I: Terrestrial Systems			
	PHY 201	College Physics I	💧	3	_____	PHY 203	College Physics II	💧	3	_____
	PHY 202	General Physics I Lab	💧	1	_____	PHY 204	General Physics II Lab	💧	1	_____
	_____	Major Elective	💧	4	_____	NRE 490	ES/NRRM Capstone Prep	◆	3	_____
	TOTAL HOURS			15		_____	Writing Intensive	●	3	_____
	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	Internship or Senior Project	●◆	3	_____
	_____	Major Elective	💧	3	_____	or 491				
	_____	Major Elective	💧	3	_____	_____	Major Elective	💧	4	_____
	_____	Free Elective		3	_____	_____	Major Elective	💧	3	_____
	_____	Free Elective		2	_____	_____	Major Elective	💧	3	_____
	TOTAL HOURS			14		TOTAL HOURS			15	
	Summer Term (optional):									

● General Education Requirement
 ■ College Requirement
 ◆ Major Requirement
 ● Area of Emphasis

🌳 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.