

ENVIRONMENTAL SCIENCE ENVIRONMENTAL SCIENCE EMPHASIS

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 120	Critical Thinking Course	●	3	_____
NRE 220	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	Core II Physical/Nat Science	●	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	_____	NRE 425	Water Policy and Regulations	♦	3	_____
MTH 140	Applied Calculus	● ♦	3	_____	NRRM 200	Analytical Methods: Statistics	♦	4	_____
NRE 120	Discussion in Environ Science (CT)	● ♦	3	_____	NRE 323	Assessment II: Aquatic Ecology	♦	4	_____
NRE 220	Human Dimensions of Nat Res (CT)	● ♦	3	_____	NRE 423	GIS and Data Systems	♦	3	_____
CHM 211	Principles of Chemistry 1	♦	3	_____	NRE 470	Internship or Senior Project	● ♦	3	_____
CHM 217	Principles of Chemistry 1 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 EMPAHSIS-SPECIFIC

Students who wish to add an area of empahsis in Environmental Science must take the following courses:

CODE	COURSE NAME		HRS	GRADE	CODE	COURSE NAME		HRS	GRADE
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 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 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.

● General Education Requirement
 ♦ College Requirement
 ● Major Requirement
 ● Area of Empahsis

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 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 facing a modern world. Areas of Emphasis help focus student efforts toward individual goals and interests with consideration to obtaining rewarding careers 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	🌳 BSC 120/L	Principles of Biology I / Lab	●	4
	🌳 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 HOURS			16	TOTAL HOURS			14
	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
	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 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	NRE 490	ES/NRRM Capstone Prep	◆	3
	🌳 NRE 423	GIS and Data Systems	◆	3	NRE 322	Assess I: Terrestrial Systems	●	4
	PHY 201	College Physics I	●	3	PHY 203	College Physics II	●	3
	🌳 PHY 202	College Physics I Lab	●	1	PHY 204	College Physics II Lab	●	1
		Free Elective		3	🌳 CMM 103	Fund Speech-Communications	●	3
						Writing Intensive	●	3
	TOTAL HOURS			14	TOTAL HOURS			17
	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
	BSC 320	Principles of Ecology	●	4	or 491			
		Major Elective	●	3		Major Elective	●	3
		Major Elective	●	3		Major Elective	●	3
		Major Elective	●	4		Free Elective		3
	TOTAL HOURS			17	TOTAL HOURS			12
	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.