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:

CORE 1: CRITICAL THINKING						CORE 2:							
CODE	COURSE NAME		HRS	GRADE		CODE	COURSE NAME		HRS	GRADE			
FYS 100	First Year Seminar	•	3		**	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				
Addition	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 or	r Principles of Biology or Living	•	4				
NRE 491	Capstone		3			NRE 111	Systems						

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		CHM 218	Principles of Chemistry II Lab	•	2 .	
***	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 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 .	
						NRE 425	Water Policy and Regulations	•	3 .	

AREA OF EMPHASIS-SPECIFIC

Area of Empahsis

College Requirement

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

CODE	COURSE NAME	J C G Z		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			rice Elective		•	
NRE 435	Biomonitorina	•	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 prerequisite 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.

🗬 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.

Area of Empahsis

Major Requirement

TOTAL HOURS

Summer Term (optional):

IVIRONMENTAL SCIENCE

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

		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	
1	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	
	UNI 100	Freshman First Class		1			NRE 220	Human Dimensions of Nat Res (CT)	• •	3	
	TOTAL III	Nunc		16			TOTAL HOU	DC		14	
Cum	TOTAL HC nmer Term (or			16			IOIAL HOU	KS		14	
Sun	imer rerm (o _t	otional):									
		FALL SEMESTER						SPRING SEMESTER			
	CODE	COURSE NAME		HRS	GRADE		CODE	COURSE NAME		HRS	GR
17	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 201/202	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	
		Free Elective		1			CIT 264	Technology Foundations	•	3	
	TOTAL HO	NURS		15			TOTAL HOU	RS	•	15-16	
Sum	mer Term (op						1011121100				
		FALL SEMESTER						SPRING SEMESTER			
	CODE	COURSE NAME		HRS	GRADE		CODE C	OURSE 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	
	TOTAL HO	Nunc		16			TOTAL LIQU	nc .		16	
Sum	nmer Term (op			10			TOTAL HOU	N3		16	
		FALL SEMESTER						SPRING SEMESTER			
	CODE	COURSE NAME		HRS	GRADE		CODE C	OURSE NAME		HRS	GR
	NRE 425	Water Policy and Regulations	•	3				Internship or Senior Project	• •	3	
		Major Elective	•	3			or 491				
		Major Elective	•	3			NRE 435	Biomonitoring	•	3	
		•		3				Major Elective	_	3	
		Major Elective	•								
		Major Elective Writing Intensive	•	3				Free Elective	•	3	

TOTAL HOURS