Environmental Science Major

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The Environmental Science major serves students interested in helping to conserve, protect, and manage natural resources. Students complete 24 hours of core coursework, then specialize in one of three emphases (Chemistry, Geology, Biology), and complete the major with an independent research project, travel course, or internship.

At least 8-12 Core hours must be completed before pursuing a particular Emphasis. NOTE: Emphasis courses may have their own prerequisites. Chemistry courses are sequential. Most BIO courses require BIO 114/115 and BIO 124/125. Historical Geol. (GEO 203) and Topics in Geol. (GEO 340 or GEO 302) require GEO 108.

Students pursuing Environmental Chemistry cannot also major in Biochemistry or major or minor in Chemistry. Those pursuing Environmental Biology cannot also major or minor in Biology. Students must earn a letter grade of C- or better in all courses needed to satisfy the major. Students interested in Graduate School in a related area should also consider Calc II and Physics I and II. Students interested in Environmental Law should consider a Pre-Law minor (18 credits). Finally, to extend the breadth of study in the major, students should also consider additional relevant electives, such as ENV/ENC 377 (Environmental and Resource Economics), ENV 300/ENG 315 (Environmental Literature), PHL 246 (Environmental Ethics), POL 326 (Environmental Politics and Policy), REL 324 (Religion and the Environment).

ACADEMIC REQUIREMENTS SUMMARY SHEET **ACADEMIC YEAR 2024-2025**

Major: ENVIRONMENTAL SCIENCE

Student's Last Name First Name Middle Initial

Advisor Date Major Declared

Course Code	Title	Hours	Semester	Grade
Core Courses (27-28 hours):				
ENV 100	Exploring Environmental Science	1		
BIO 114/115	Biological Processes	4		
BIO 124/125	Biological Diversity	4		
CHM 114/115	General Chemistry I	4		
GEO 108	Intro to Physical Geology	4		
ENV 105	Intro to Environmental Science	4		
MAT 114	Elementary Statistics	3		
	Capstone (Independent Research, Travel Course, or Internship)	3-4		
In addition to the core courses you must complete one of the following emphases:				
Environmental Chemistry Emphasis				
CHM 124/125	General Chemistry II	4		
CHM 314/315	Organic Chemistry I	4		
CHM 324/325	Organic Chemistry II	4		
CHM 334/335	Analytical Chemistry I	4		
MAT 124	Calculus	5		
	Total Emphasis Hours	**21**		
Environmental Geology Emphasis				
GEO 203	Historical Geology	4		
GEO 315	Anthropocene Geology	3		
GEO 335	Paleontology	4		
GEO 302 or 340	Topics in Geology	4		
Choose one of the following courses (3 hours)				
BIO 212	Research Methods	3		
CSA 104	Programming Logic and Design	3		

Course Code	Title	Hours	Semester	Grade
MAT 115	Fundamentals of Data Science	3		
	Total Emphasis Hours	**18**		
Environmental Biology Emphases				
BIO 205	Ecology and Field Biology	4		
BIO 310	Environmental Toxicology	3		
BIO or GEO	Organismal Course (several from which to choose)	4		
ENV 350	Conservation Biology	3		
GEO 203	Historical Geology	4		
	Total Emphasis Hours	**18**		
	Total Hours For Major	**45-49**		

If any substitutions or waivers of requirements are allowed, please list below and initial.

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Advisor Signature

Department Chair Signature