ENVIRONMENTAL SCIENCE MAJOR

Emphasis in Chemistry Geology Biology

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Professor: G. McNett Associate Professors: B. Hansert, D. Holliday, D. Schmidt Assistant Professor: M. Loehr

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 <u>cannot</u> also major in Biochemistry or major or minor in Chemistry. Those pursuing Environmental Biology <u>cannot</u> 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 Calculus 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

Date Major Declared

Major: ENVIRONMENTAL SCIENCE MAJOR

Student's Last Name

First Name

Middle Initial

Advisor

Course #	Title of Course	Hours Required	Semester Completed	Grade
Core Courses				
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	Statistics	3		
	Capstone (Independent Research, Travel Course, or Internship)	3-4		
	Total Core Hours	27-28 hrs		
IN ADDITION T	O THE CORE COURSES, YOU MUST COMPLETE ONE OF T	HE FOLLOWING EM	PHASES:	
Environmental Ch	emistry 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 hrs		
Environmental Ge	ology Emphasis		·	
BIO 212	Research Methods	3		
OR CSA 104	Programming Logic and Design	3		
OR MAT 115	Fundamentals of Data Science	3		
GEO 203	Historical Geology	4		
GEO 315	Anthropocene Geology	3		
GEO 335	Paleontology	4		
GEO 302	Topics in Geology	4		
OR GEO 340	Topics in Geology	4		
	Total Emphasis Hours	18 hrs		
Environmental Bio	logy Emphases			
BIO 205	Ecology and Field Biology	4		
BIO 310	Environmental Toxicology	3		
BIO <i>or</i> geo	Organismal Course (several from which to choose)	4		
ENV 350	Conservation Biology	3		
GEO 203	Historical Geology	4		
	Total Emphases Hours	18		
	TOTAL HOURS FOR MAJOR	45-49 hrs		

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

Advisor Signature:

Department Chair Signature: