

## Environmental Studies (ENVI)

***Faculty: Jonathon Amburgey, David Baddley, Matthew Baker, Bonnie Baxter, Dan Byrne, Christy Clay (Chair), Richard Collins, Jennifer Eden, Leo Figueroa-Helland, Hikmet Loe, Lance Newman, Jeff Nichols, Brent Olson, Giancarlo Panagia, Michael A. Popich, Tiffany Rivera, Gretchen Siegler, Michael Zarkin***

### Program Goals

- Understand interdisciplinary concepts, diverse perspectives, and debates in Environmental Studies.
- Communicate environmental issues effectively in a variety of media, to specialized and general audiences.
- Work effectively as leaders and collaborators to address environmental issues.
- Use empirical and conceptual tools to evaluate environmental conditions and the issues surrounding them.
- Improve the environment in which people, animals, and plants live, work, and play

### Objectives

Environmental Studies is an interdisciplinary program combining the perspectives of the humanities, natural sciences, and social sciences to provide students with multiple perspectives in some of the most challenging and exciting fields of inquiry today: the relationship between humans and the natural world, along with issues of conservation, preservation, pollution, climate change, rehabilitation, mitigation, endangered species, international development, and global change. The B. A. or B. S. degree in Environmental Studies can lead to careers working with business, industry, nonprofit environmental organizations, formal and informal education, and federal, state, and local governments, including jobs in National Parks and National Forests, in addition to continuing studies in graduate school in science or law. The minor in Environmental Studies provides a useful multidisciplinary supplement to studies in other fields

### Program Requirements

Environmental Studies majors will select one of three concentrations: Environmental Science, Environmental Humanities, or the Civic Environment. The concentration should be chosen by the time students have completed 60 hours of undergraduate credit. Students interested in the Environmental Studies major or minor should, during their first year, choose a faculty advisor who is a member of the Environmental Studies faculty and plan to meet with them for an in-depth conversation about the program and their degree options.

Students must meet the college-wide graduation requirements in addition to the Environmental Studies major:

- 124 total hours
- 30 upper division hours
- Liberal education distribution

### Academic Major in Environmental Studies-Bachelor of Science Degree Concentration in Environmental Science

	Credit Hours	Prerequisites
<b>Liberal Education Courses</b>		
Life Sciences, Physical Sciences, and Mathematics liberal education requirements are fulfilled by meeting major requirements.		
<hr/>		
Requirement Description	Credit Hours	Prerequisites
<b>I. Foreign Language Requirement</b>	<b>8</b>	
Environmental Studies majors must complete eight credit hours in a single foreign language.		
<b>II. Core Courses</b>	<b>32</b>	
BIOL 202 Organisms and Evolution (4) or		
BIOL 204 Principles of Genetics (4) or		CHEM 112
BIOL 205 Introduction to Cell Biology (4)		CHEM 112
BIOL 203 Introduction to Ecology (4)		pre- or co-requisite: MATH 240
BIOL 345 Environmental Science and Lab (4)		BIOL 111 or higher, CHEM 111, 112
CHEM 111 Principles of Chemistry I and Lab (4)		co-requisite: MATH 141 (LE)
CHEM 112 Principles of Chemistry II and Lab (4)		co-requisite: MATH 141 (LE)
GEOL 205 Environmental Earth Sciences (4)		
ENVI 101 Introduction to Environmental Studies (4)		
MATH 240 Statistics for the Sciences (4)		MATH 141 (LE)
<b>III. Distribution Courses</b>	<b>8</b>	
All Environmental Studies majors must take at least one distribution course in Humanities and Social Sciences, chosen from the lists below:		
<b>Humanities</b>		
ENGL 357 Environmental Literature (4)		ENGL 220 (LE) or consent of the instructor

HIST 320 Environmental History of the U.S. (3)—offered alternate years	HIST 112 (LE), 113 (LE), 212 (LE), or 220(LE) or consent of the instructor
PHIL 307 Environmental Ethics (4)	PHIL 102 or consent of the instructor
<b>Social Sciences</b>	
ANTH 311 Human Evolution and Archeology (4)	
ECON 325 Environmental Economics (4)—offered fall	ECON 105 or 253 or 263 or consent of instructor
PLSC 327 Environmental Politics and Policy (4)	
ANTH 377 Environmental Anthropology (4)	
<b>IV. Electives</b>	<b>7</b>
All candidates for the B.S. in Environmental Studies must take at least 7 hours of electives in consultation with their advisors. Electives can be taken from the list of Distribution courses, from the following list, or with advisor approval.	
ANTH 377 Environmental Anthropology (4)	
ART 180 Photography, LE (3)	
ART 313 Environmental Art (4)	
COMM 203 Writing for the Mass Media (4)	COMM 201
COMM 310 Professional Writing (4)	COMM 203
COMM 336 Public Relations Principles (3)	
COMM 410 Technical Writing (4)	consent of instructor
EDUC 382 Methods of Teaching Secondary School Science (3)	
ENGL 324 Creative Writing: Nonfiction (1–4)	ENGL 230 or consent of instructor
ENVI 300 Special Topics in Environmental Studies (1–4)	ENVI 101 or consent of instructor
ENVI 301 Field Study (1–4)	ENVI 101 or consent of instructor

ENVI 305 Introduction to Geographical Information Systems (4)	ENVI 101 or consent of instructor
ENVI 350 Special Topics in Civic Environment (1–4)	ENVI 101 or consent of instructor
ENVI 351 The Global Environment (4)	ENVI 101 or consent of instructor
ENVI 355 Special Topics in Environmental Humanities and Social Sciences (1–4)	ENVI 101 or consent of instructor
ENVI 360 Special Topics in Environmental Humanities (1–4)	ENVI 101 or consent of instructor
ENVI 361 Writing the Environment (4)	ENVI 101 or consent of instructor
ENVI 370 Theories of Nature (4)	ENVI 101 or consent of instructor
HIST 335 Environmental History of Africa (4)	
JUST 344 Environmental Justice (4)	
PUBH 320 Environmental Health (4)	
SOC 390 Social Research Methods (4)	MATH 150 (LE)
SPCH 205 Business and Professional Communication (2)	SPCH 111
SPCH 320 Principles of Argumentation (3)	SPCH 111 or 205

#### **V. Science and Environment Concentration**

**15**

Students must take a minimum of 15 upper-division credits from the following list or have advisor approval to substitute other relevant courses. Three courses must be numbered 300 or above unless pre-approved by advisor. Students are limited to 4 credit hours earned during May term.

BIOL 310 Plant Biology and Lab (4)	BIOL 202, 203, 205 CHEM 111
BIOL 313 Astrobiology (4)	BIOL 203, 204
BIOL/CHEM 350 Biochemistry and Lab (4)	BIOL 205; CHEM 304
BIOL 404 Advanced Ecology (4)	BIOL 202, 203; CHEM 112; MATH 240

CHEM 303 Organic Chemistry I (4)	CHEM 111, 112
CHEM 304 Organic Chemistry II (4)	CHEM 111, 112
CHEM 307 Instrumental Analysis and Lab (4)	CHEM 111, 112; PHYS 151 or 211
CHEM 320 Inorganic Chemistry (4)	CHEM 111, 112
ENVI 340 Special Topics in Environmental Science	ENVI 101 or consent of instructor. Can be taken more than once.
GEOL 110 Intro to Geology (3)	
PSYC 388 Environmental Psychology (4)	PSYC 105, PSYC 216 or JUST 216, and PSYC 270
<b>VI. Senior Project</b>	<b>4</b>
ENVI 405 Senior Capstone	
<b>TOTAL HOURS FOR THE MAJOR</b>	<b>73–75</b>

### Recommended Plan of Study for Environmental Science—Bachelor of Science Degree Concentration in Environmental Science

	Fall Semester	Spring Semester
<b>Freshman Year</b>	BIOL 203 CHEM 111 MATH 240 LE course	BIOL 202 or 204 or 205 CHEM 112 ENVI 101 LE course
<b>Sophomore Year</b> Required meeting with Environmental Studies advisor	BIOL 345 Distribution courses Concentration courses LE courses	GEOL 205 – – –
<b>Junior Year</b>	Final distribution courses Concentration courses Elective course Consider an internship	
<b>Senior Year</b>	Final concentration courses Final electives Senior capstone	

## Academic Major in Environmental Studies—Bachelor of Arts Degree Concentration in Environmental Humanities

Requirement Description	Credit Hours	Prerequisites
<b>I. Foreign Language Requirement</b>	<b>8</b>	
Environmental Studies majors must complete eight credit hours in a single foreign language.		
<b>II. Required Courses</b>	<b>16</b>	
ENVI 101 Environment: Science, Societ, and Culture (4)		
ENVI 361 Writing the Environment (4)		ENVI 101 or consent of instructor
ENVI 370 Theories of Nature (4)		ENVI 101 or consent of instructor
<b>III. Distribution Courses</b>	<b>7–8</b>	
Take one course from each area:		
<b>Natural Sciences</b>		
BIOL 110 Environmental Biology, LE (3)		
PHYS 104 Explorations in Science and Society (4)		
GEOL 205 Environmental Earth Sciences (4)		
<b>Social Sciences</b>		
ANTH 311 Human Evolution and Archeology (4)		
ECON 325 Environmental Economics (4)		ECON 105 (LE) or 253 or 263 or consent of instructor
PLSC 327 Environmental Politics and Policy (4)		
<b>IV. Concentration</b>	<b>19</b>	
Take 19 credits from the following courses:		
ENVI 360 Topics in Environmental Humanities (4)		ENVI 101 or consent of instructor. Can be taken more than once.
ENVI 355 Topics in ENVI Humanities and Social Sciences (4)		ENVI 101 or consent of instructor. Can be taken more than once.
ART 313 Environmental Art (4)		

PHIL 307 Environmental Ethics (4)	PHIL 102 (LE)
HIST 320 Environmental History of the U.S. (3)—offered alternate years	HIST 112 (LE), 113 (LE), 212 (LE), or 220 (LE)
HIST 335 Environmental History of Africa (4)	
ENGL 357 Environmental Literature (4)	ENGL 220 (LE)
<b>IV. Electives</b>	<b>12</b>
Take 12 credits from this list or from other courses approved by your advisor. We strongly recommend ENVI HUM students pursue an Internship. Also, students may take up to 3 credits cross-listed HPW toward their elective hours for the major.	
ANTH 311 Human Evolution and Archaeology (4)	
ANTH 377 Environmental Anthropology (4)	
ART 180 Photography (4)	
ART 313 Environmental Art (4)	
COMM 203 Writing for Mass Media (4)	COMM 201
ECON 325 Environmental Economics (4)	ECON 105 (LE) or 253 (LE), or 263, or consent of instructor
ENGL 230 Creative Writing (3)	ENGL 110 (LE)
ENGL 324 Nonfiction Creative Writing (3)	ENGL 230 or consent of instructor
ENGL 357 Environmental Literature (4)	ENGL 220 (LE)
ENVI 300 Topics in ENVI (4)	
ENVI 301 Field Study (1-2)	
ENVI 305 GIS (4)	
ENVI 340 Topics in ENVI Science (4)	ENVI 101 or consent of instructor. Can be taken more than once.
ENVI 350 Topics in ENVI Civic (4)	
ENVI 351 The Global Environment (4)	
ENVI 440 Internship (1-4)	junior/senior standing, see course description
HIST 240 Making History (2)	

HIST 320 Environmental History of the U.S. (3)—offered alternate years	HIST 112 (LE), 113 (LE), 212 (LE), or 220 (LE)
HIST 335 Environmental History of Africa (4)	
HIST 340/1 Latin American History—offered alternate years (3)	
HIST 365 Utah and the West (3)—offered alternate years	HIST 112 (LE), 113 (LE), 212 (LE), or 220 (LE)
HPW 355 Outdoor Leadership (2)	
JUST 344 Environmental Justice (4)	
PHIL 307 Environmental Ethics (4)	
PLSC 327 Environmental Politics (4)	PHIL 102 (LE)
PSYC 388 Environmental Psychology (4)	PSYC 105, PSYC 216 or JUST 216, and PSYC 270, or consent of instructor
<b>VI. Senior Project</b>	<b>4</b>
ENVI 405 Senior Capstone (4)	
<b>TOTAL HOURS FOR THE MAJOR</b>	<b>62-63</b>

### Recommended Plan of Study for Environmental Science—Bachelor of Arts Degree Concentration in Environmental Humanities

	Fall Semester	Spring Semester
<b>Freshman Year</b>	ENVI 101 Distribution courses Language	
<b>Sophomore Year</b>	Distribution courses Concentration courses Language	
<b>Junior Year</b>	ENVI 370 ENVI 361 Electives Internship/Study Abroad	
<b>Senior Year</b>	Concentration courses Electives Senior Capstone	



## Academic Major in Environmental Studies—Bachelor of Arts Degree Concentration in Civic Environment

Requirement Description	Credit Hours	Prerequisites
<b>I. Foreign Language Requirement</b>	<b>8</b>	
Environmental studies majors must complete eight credit hours in a single foreign language.		
<b>II. Required Courses</b>	<b>12</b>	
ENVI 101 Environment: Science, Societ, and Culture (4)		
MATH 150 Statistics (4)		MATH 105 or placement test
ENVI 370 Theories of Nature (4)		ENVI 101 or consent of instructor
<b>III. Distribution Courses</b>	<b>6-8</b>	
Take one course from each area:		
<b>Natural Sciences</b>		
BIOL 110 Environmental Biology, LE (3)		
PHYS 104 Explorations in Science and Society (4)		
GEOL 205 Environmental Earth Sciences (4)		
<b>Humanities</b>		
ENGL 357 Environmental Literature (3)		ENGL 220 (LE)
PHIL 307 Environmental Ethics (4)		PHIL 102 (LE)
HIST 320 Environmental History of the United States (3)—offered alternate years		HIST 112 (LE), 113 (LE), 212 (LE)
<b>IV. Concentration</b>	<b>16</b>	
Take 16 credits from the following courses. Note that ENVI 350 and ENVI 355 will describe different courses each semester, and thus may be taken multiple times for credit.		
ANTH 377 Environmental Anthropology (4)		
ECON 325 Environmental Economics (4)		ECON 105 (LE) or 253 (LE) or 263, or consent of instructor
ENVI 305 Geographic Information Systems (4)		

ENVI 350 Topics in the Civic Environment (4)	ENVI 101 or consent of instructor. Can be taken more than once
ENVI 351 The Global Environment (4)	
ENVI 355 Topics in ENVI Humanities and Social Sciences (4)	ENVI 101 or consent of instructor. Can be taken more than once
JUST 344 Environmental Justice (4)	
PLSC 327 Environmental Politics (4)	
<b>IV. Electives</b>	<b>12</b>
<p>Take 12 credits from this list or from other courses approved by your advisor. Courses from the Concentration list can also count towards Elective hours. Also, students may take up to 3 credits cross-listed with HPW toward their elective hours for the major.</p>	
ANTH 311 Human Evolution and Archaeology (4)	
ANTH 355 Indigenous Peoples in the United States(4)	
ANTH 390 Exploratory Ethnographics Research (4)	
ART 313 Environmental Art (4)	
COMM 336 Public Relations (4)	
ECON 253 Macroeconomics (4)—offered fall, spring, and summer	
ECON 263 Microeconomics (4)—offered fall, spring, and summer	ECON 253 (LE); MATH 141 (LE)
ECON 365 Economic Justice (4)	ECON 105 (LE), or 253 (LE) or 263, or consent of instructor
ENGL 357 Environmental Literature (4)	ENGL 220 (LE) or consent of instructor
ENVI 300 Topics in Environmental Studies (4)	ENVI 101 or consent of instructor. Can be taken more than once.
ENVI 301 Field Study (1-4)	ENVI 101 or consent of instructor. Can be taken more than once.

ENVI 340 Topics in Environmental Science (4)	ENVI 101 or consent of instructor. Can be taken more than once.
ENVI 440 Internship (1-4)	junior/senior standing, see course description
ENVI 355 Topics in Environmental Humanities and Social Sciences (4)	ENVI 101 or consent of instructor. Can be taken more than once
ENVI 360 Topics in Environmental Humanities (4)	ENVI 101 or consent of instructor. Can be taken more than once
ENVI 361 Writing the Environment (4)	
HIST 240 Making History	
HIST 320 Environmental History of the U.S.—offered alternate years	HIST 112 (LE), 113 (LE), 212 (LE), or 220 (LE)
HIST 335 Environmental History of Africa	
PHIL 307 Environmental Ethics	PHIL 102 (LE)
PSYC 388 Environmental Psychology (4)	PSYC 105, PSYC 216 or JUST 216, and PSYC 270, or consent of instructor.
PSYC 390 Quantitative Research Methods (4)	PSYC 105, MATH 150 or MATH 240
PUBH 320 Environmental Health	PUBH 305
SOC 390 Social Research Methods (4)	MATH 150
<b>VI. Senior Capstone</b>	<b>4</b>
ENVI 405 Senior Capstone (4)	
<b>TOTAL HOURS FOR THE MAJOR</b>	<b>62-63</b>

**Recommended Plan of Study for Environmental Science—Bachelor of Arts Degree Concentration in Civic Environment**

Fall Semester    Spring Semester

<b>Freshman Year</b>	ENVI 101 Distribution courses Language
<b>Sophomore Year</b>	Distribution courses Concentration courses Language
<b>Junior Year</b>	ENVI 370 ENVI 361 Electives Internship/Study Abroad
<b>Senior Year</b>	Concentration courses Electives Senior Seminar

## Academic Minor

Requirement Description	Credit Hours	Prerequisites
<b>I. Required Courses</b>	<b>14–16</b>	
ENVI 101 Environment: Science, Society, Culture (4) And at least one course in Humanities, Natural Sciences, and Social Sciences, chosen from the lists below		
<b>Humanities</b>		
ENGL 357 Environmental Literature (3)		ENGL 220 (LE)
HIST 320 Environmental History of the U.S. (3—offered alternate years)		HIST 112 (LE), 113 (LE), 212 (LE), or 220 (LE)
PHIL 307 Environmental Ethics (3)		PHIL 102 (LE)
<b>Natural Sciences</b>		
BIOL 110 Environmental Biology, LE (3)		
BIOL 203 Introduction to Ecology (4)		MATH 240
GEOL 205 Environmental Earth Sciences (4)		
<b>Social Sciences</b>		
ANTH 311 Human Evolution and Archeology (4)		
ANTH 377 Environmental Anthropology (4)		

---

ECON 325 Environmental Economics (4)

ECON 105 (LE) or  
253 (LE) or 263, or  
consent of  
instructor

---

PLSC 327 Environmental Politics and Policy (4)

**II. Electives**

**9**

Nine additional hours chosen in consultation with the student's minor advisor or the chair of the Environmental Studies Program. These can be chosen in the same manner as the electives for the major as described above.

**TOTAL HOURS FOR THE MINOR**

**23–24**

---