

## Environmental Studies

### College of Arts and Sciences

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### Degrees Offered

- B.A. and Minor in Environmental Studies

### Program Statement

The Bachelor of Arts degree in Environmental Studies is an interdisciplinary liberal arts degree with a basic background in mathematics, science, social sciences, and environmental policy. The degree differs from science and engineering degrees because of its focus on communication, critical thinking, and problem solving. The environmental studies program provides an excellent preparation for law school, for graduate school in public policy, the social sciences, the humanities, and for jobs with environmental organizations, governmental agencies, and industry. Students wishing more depth in environmental science or engineering should (1) consider a B.S. in Biology, Chemistry, Environmental and Occupational Health, Geophysics, or Geosciences, either alone or in combination with a B.A. in Environmental Studies as a double major, or (2) consider combining a B.A. in Environmental Studies with a minor in Biology, Chemistry, Civil Engineering, or Geographic Information Systems. Further information is available at the Coordinator's office.

### Degree Requirements

Environmental Studies Bachelor of Arts	
Course Number and Title	Credits
ENGL 101-102 English Composition	6
<b>Area I — see page 44 for list of approved courses</b>	
Area I core course in literature	3
Area I core course in a second field	3
Area I core course in a third field	3
Area I core course in any field	3
<b>Area II — see page 44 for list of approved courses</b>	
Area II core course in history	3
ANTH 102 Cultural Anthropology <b>OR</b> ANTH 103 Introduction to Archeology	3
ECON 202 Principles of Microeconomics	3
POLS 101 American National Government	3
<b>Area III</b>	
Area III requirements are automatically met by specific courses included in the major requirements below.	
ANTH 303 Human Paleocology <b>OR</b> BIOL 323 Ecology	3-4
ANTH 314 Environmental Anthropology <b>OR</b> GEOG 321 Conservation of Natural Resources	3
BIOL 191-192 General Biology I-II	8
CHEM 101-102 Essentials of Chemistry <b>OR</b> CHEM 105 Accelerated Essentials of Chemistry <b>OR</b> *CHEM 111, 111L-112, 112L General Chemistry I and II with Labs *May be a prerequisite for courses chosen below.	5-9
COMM 231 Public Speaking <b>OR</b> COMM 356 Communication in a Small Group <b>OR</b> COMM 412 Persuasion	3
ECON 333 Natural Resource Economics	3

— continued —

Environmental Studies (continued)	
ENGL 202 Technical Communication	3
ENVHLTH 100 Introduction to Environmental Health	2
ENVSTD 121 Introduction to Environmental Studies	3
ENVSTD 491-492 Senior Project I & II	6
*ENVSTD 493 Internship	4-6
*Students must complete at least two internships worth two to three credits each in two of the following areas: natural resource industry, conservation organization, and government agency involved in natural resource management or environmental regulation.	
GEOG 100 Introduction to Geography <b>OR</b> GEOG 102 Cultural Geography	3
GEOG 360 Geographic Information Systems	3
GEOS 101 Environmental Geology	4
HIST 351 North American Environmental History	3
HIST 376 Global Environmental History <b>OR</b> *HIST 497 Special Topics in History	3
*HIST 497 course must be approved by Environmental Studies Program Director	
MATH 143 College Algebra	3
MATH 254 Applied Statistics with a Computer <b>OR</b> PSYC 295 Statistical Methods	3-4
PHIL 211 Ethics	3
POLS 340 Environmental Politics	3
Two courses chosen from: COMM/SOC 390, DISPUT 400, or MGMT 301	6
9 credits chosen from courses in the following focus areas: Courses in this list that are used to satisfy requirements in previous sections may not be counted toward the 9-credit requirement in this section.	9
<b>Health Focus</b>	
*ENVHLTH 310 Water Supply and Water Quality Management	
*ENVHLTH 380 Air Quality Management	
*ENVHLTH 417 Principles of Toxicology	
ENVHLTH 442 Hazardous Waste Management	
ENVHLTH 450 Environmental Health Law	
*Requires CHEM 111-112 as prerequisite	
<b>Policy Focus</b>	
ECON 322 Urban Economics	
HIST 376 Global Environmental History	
*HIST 497 Special Topics in History	
MGMT 301 Leadership Skills	
POLS 303 Introduction to Public Administration	
POLS 320 American Policy Process	
SOC 440 Environmental Sociology	
*HIST 497 courses must be approved by Environmental Studies Program Director	
<b>Science Focus</b>	
BIOL 422 Conservation Biology	
*CHEM 211, 212 Analytical Chemistry I and Lab	
*CHEM 301 Survey of Organic Chemistry	
*CE 320 Principles of Environmental Engineering (CE 321 Environmental Engineering Lab is optional)	
GEOG 331 Climatology	
GEOG 212 Water in the West	
*GEOG 426 Aqueous Geochemistry	
*Requires CHEM 111-112 as prerequisite	
Electives to total 128 credits	4-11
Any courses given at the University may be used as electives. Taking courses from the following list would give a student more depth in environmental studies. BIOL 415, 427; BOT 425; CHEM 317, 432; COMM 361, 390, 478; ENGL 302, 402; ENGR 360; GEOG 361; GEOS 201, 305, 313; PARALGL 431; MGMT 401; PHIL 201, PHIL 337, 406; POLS 467, 469; SOC 487	
Total	128

Environmental Studies Minor	
Course Number and Title	Credits
ENVSTD 121 Introduction to Environmental Studies	3
GEOG 100 Introduction to Geography	3
ANTH 303 Human Paleocology <b>OR</b> ANTH 314 Environmental Anthropology <b>OR</b> BIOL 323 Ecology <b>OR</b> GEOG 321 Conservation of Natural Resources	3-4
ECON 333 Environmental Economics <b>OR</b> HIST 351 North American Environmental History <b>OR</b> HIST 376 Global Environmental History <b>OR</b> POLS 340 Environmental Politics	3
Choose 8 credits from the following: BIOL 191 General Biology I BIOL 192 General Biology II CHEM 101 Essentials of Chemistry I CHEM 102 Essentials of Chemistry II CHEM 105 Accelerated Essentials of Chemistry CHEM 111 General Chemistry I CHEM 112 General Chemistry II ENVHLTH 100 Introduction to Environmental Health GEOS 101 Environmental Geology	8
Choose 6 credits from the following: (Courses used to satisfy requirements in previous sections may not be used to satisfy the 6 credits required in this section) ANTH 303 Human Paleocology ANTH 314 Environmental Anthropology BIOL 323 Ecology BIOL 422 Conservation Biology *CHEM 211, 212 Analytical Chemistry I and Lab *CHEM 301 Survey of Organic Chemistry *CE 320 Principles of Environmental Engineering (CE 321 Principles of Environmental Engineering is optional) ECON 322 Urban Economics ENVHLTH 310 Water Supply and Water Quality Management ENVHLTH 380 Air Quality Management ENVHLTH 417 Principles of Toxicology ENVHLTH 442 Hazardous Waste Management ENVHLTH 450 Environmental Health Law GEOG 321 Conservation of Natural Resources GEOS 212 Water in the West *GEOS 426 Aqueous Geochemistry HIST 351 North American Environmental History HIST 376 Global Environmental History SOC 440 Environmental Sociology *Requires CHEM 111-112 as prerequisite	8-11
Total	26-27

## Course Offerings

See page 65 for a definition of the course-numbering system.

### ENVSTD — ENVIRONMENTAL STUDIES

#### Lower Division

**ENVSTD 121 INTRODUCTION TO ENVIRONMENTAL STUDIES (3-0-3) (S).** Introduction to the interdisciplinary nature of environmental concepts and issues. Integrates scientific, sociopolitical, and humanistic approaches to the understanding of nature and of how humans interact with the rest of nature. Includes a service learning component.

#### Upper Division

**ENVSTD 491, 492 SENIOR PROJECT I, II (1-6-3) (F/S).** Two semester capstone course that integrates science, policy, and the social sciences to address a real-life problem. Students will identify a problem, gather data, consult with experts, study policy, then recommend a solution. Includes progress reports, oral presentations, and a written final report. PREREQ: BIOL 323, ENVHLTH 450, GEOG 321, and POLS 340, or PERM/INST. For ENVSTD 492: ENVSTD 491.

**ENVSTD 493 INTERNSHIP (2-3 credits).** Work with industries, organizations and agencies that have a stake in the environment. Students must complete a minimum of 50 hours of work per credit of internship. (Pass/Fail.)

**Exercise Science, Exercise Physiology Emphasis — see Department of Kinesiology**

**Exercise Science, Fitness Evaluation and Programming Emphasis — see Department of Kinesiology**

**Finance — see Department of Marketing and Finance**

**Fitness (Kinesiology) Activity courses — see Department of Kinesiology**

**French — see Department of Modern Languages and Literatures**

**General Business Management — see Department of Management**