



## Suggested Areas of Concentration

### Earth System Science

- ES 318 Glaciers and Records of Climate Change
- ES 322 Geomorphology *OR* ES 323 Geologic Disasters & Global Change
- One two-course sequence: choose from Chem 107-108 *OR* Phy 103-104 *OR* Phy 111-112

### Environmental Policy and Management

- ES 333 Environmental Policy
- Pol 101 American Government *OR* Pol 103 Intro. to International Relations *OR* Pol 104 Intro. to Comparative Politics

### Environmental Science

*Note: At least **three** courses should be chosen from the list of electives. Students choosing this area of concentration automatically satisfy the requirements for the Bachelor of Science degree, but may choose to receive the Bachelor of Arts degree.*

- One mathematical/statistics course (see list under BS core requirements)
- **Two** two-course sequences in natural science (see list under BS core requirements)

### Environmental Writing and Film

- ES 337 Environmental Film
- ES 2xx Environmental Writing

### GIS and Spatial Analysis

- ES 263 Remote Sensing
- ES 312 Environmental Applications of GIS
- One statistics course (see list under BS core requirements)

### Landscape Ecology and Land-Use

- ES 312 Environmental Applications of GIS
- ES 245 Terrestrial Ecosystems *OR* ES 315 Land: Ecology, History, and Culture

### Marine and Freshwater Ecology

- ES/Bio 306 Marine Ecology *OR* Bio 307 Freshwater Ecology (*whichever is chosen, the other may be used as an elective*)
- Bio 111 Introduction to Ecology & Evolution
- Bio 112 Form & Function of Living Organisms

### Nature and Human Culture

- ES 252 The Rocky Mountain West: Cultural Geography
- ES 337 Environmental Film

### Sustainable Development

- ES 333 Environmental Policy
- ES 334 Global Environment and Development

### Conservation Biology

- ES 316 Conservation Biology
- Bio 111 Introduction to Ecology & Evolution
- Bio 112 Form & Function of Living Organisms

## Self-designed Area of Concentration

*An Area of Concentration that combines courses from existing areas of concentrations or from existing areas of concentrations and elsewhere in the Gettysburg College curriculum may be designed in consultation with your advisor. Students submit a plan of study including a list of courses which must also be approved by the Chair of the Environmental Studies Department.*

*The self-designed area of concentration is meant to allow you to take advantage of special circumstances, such as courses offered by visiting faculty, study abroad, or to combine courses in a unique and logical way to help you achieve your career goals. Recent examples include areas such as Environmental Education or Environmental Health.*

## Electives

### Environmental Studies

- ES 240 Energy: Production, Use, & Environmental Impact
- ES 245 Terrestrial Ecosystems
- ES 251 The Rocky Mountain West: Physical Geography
- ES 252 The Rocky Mountain West: Cultural Geography
- ES 263 Remote Sensing
- ES/Bio 306 Marine Ecology
- ES 312 Environmental Applications of GIS
- ES 315 Land: Ecology, History, and Culture
- ES 316 Conservation Biology
- ES 317 Chesapeake Bay
- One course among ES 121, 122, 127, 128, 130, 161, 162 or FYS 105, 120, 139, 148 or 156 as entry to the major or by permission of the Department.
- ES 318 Glaciers and Records of Climate Change
- ES 319 Environmental Film
- ES 322 Geomorphology
- ES 323 Geologic Disasters & Global Change
- ES 324 Soils, Water and the Environment
- ES 333 Environmental Policy
- ES 334 Global Environment and Development
- ES 337 Environmental Film
- ES 350 Coastal Ecology of Maine

### Samples from other Departments

- Anth 223 Indigenous Peoples, the Env. & the Global Econ.
- Ast 208 Topics in Astronomy
- Bio 200 Physiology of Plant Adaptations
- Bio 204 Biology of Flowering Plants
- Bio 211 Genetics
- Bio 218 Biology of Algae and Fungi
- Bio 227 Invertebrate Zoology
- Bio 230 Biostatistics
- Bio 307 Freshwater Ecology
- Bio 314 Evolution
- Chem 203 Organic Chemistry
- Chem 204 Organic Chemistry
- Chem 317 Instrumental Analysis
- CS 103 Introduction to Computing *OR* CS 111 Computer Science I
- Econ 250 Economic Development
- Econ 341 Environmental Economics
- Econ 348 Econ of Spatial Env. Analysis
- Hist 103 Europe, Asia, & Africa: 1750-1930
- Hist 230 Native American-European Encounter in North America
- Hist 236 Urbanism in American History
- IDS 255 Science, Technology, and Nuclear Weapons
- IDS 268 The Arts, Environment, and Religions of Indonesia
- Math 212 Linear Algebra
- Phil 333 Philosophy and Science
- Pol 252 North-South Dialogue
- Pol 363 Politics of Developing Areas
- Phy 310 Atomic and Nuclear Physics
- Phy 325 Advanced Physics Laboratory
- Phy 352 Optics and Laser Physics
- Rel 226 Native American Religions
- VAH 217 History of Modern Architecture

## The ES Major Plan

*It is strongly recommended that upon declaration of the ES Major, in consultation with one's Environmental Studies faculty advisor, students develop an ES major plan: a written statement explaining one's choice of an Area of Concentration in light of one's academic and career goals. It includes a brief outline of plans for future courses, internships, off-campus study, and independent research. While the plan may change, it encourages students to think intentionally about their academic careers and be better prepared to take full advantage of the learning opportunities available both on and off campus.*

### **The Environmental Studies Minor**

*The Environmental Studies minor consists of **six** courses:*

- ES 196 Environmental Science and Society
- ES 211 Principles of Ecology *OR* Bio 205 Ecology *OR* ES 223 Earth System Science
- ES 230 Introduction to Geographic Information Systems
- Three electives from the other ES courses, only one of which can be at the 100 level.

### **For more information....**

...visit the Environmental Studies website at ([www.gettysburg.edu/academics/environmental\\_studies/](http://www.gettysburg.edu/academics/environmental_studies/)) or contact the Department Chair, Randall K. Wilson ([rwilson@gettysburg.edu](mailto:rwilson@gettysburg.edu)).

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