

# Colby Environmental Science Major

Class of 2021

## Foundation Courses Required

**ES 118:** Environment and Society  
**ES 271:** Introduction to Ecology

**BI 163:** Cellular Basis of Life  
**BI 164:** Evolution and Diversity

**EC 133:** Microeconomics  
**EC 231:** Env. and Natural Resource Economics

## Science and Math Courses Required

Required: Select 2 chem OR 2 physics AND Select 1 Geo OR GIS.  
 Note: 2-semester CH/GE 121/122 Earth Systems Chem can fulfill the Chem/Geo req. by replacng the equivalent of 2 chem and 1 geo.  
 CH/GE 121/122 is fulfills prereq for upper-level chem/geology courses

### Chemistry or Physics

**CH121/122:** Earth Systems Chemistry I & II  
**OR**  
**CH 141/142:** General Chemistry I and II  
**OR**  
**CH 147:** Honors Chemistry  
**OR**  
**PH 141:** Foundations of Mechanics I (or PH143)  
**AND**  
**PH 145:** Foundations of Electro. & Optics

### Geology/GIS (one of the following)

**ES 212:** Intro to GIS & Remote Sensing OR  
**ES 214:** Intro to GIS & Spatial Analysis  
**GE 141:** Earth & Environment  
**GE 142:** Deep Time Planet Earth  
 (CH/GE121/122 counts toward this requirement)

### Mathematics

**MA 121:** Single-variable calculus  
**AND**  
 For Cons. Biology, Marine Science, Applied Ecology, or Env. and Public Health focus areas:  
**SC 212:** Elementary Statistics  
  
 For Climate focus area:  
**MA 122:** Series and Multi-variable Calculus

## Humans and the Environment

Choose two of the following  
 (not more than one 100-level; additional courses can count with approval of advisor and/or Program Chair):

### Anthropology

**AY 256:** Land, Food, Culture, Power

### Economics

**EC 341:** Natural Resource Economics

### Environmental Studies

**ES 212 or ES214:** Intro to GIS\*  
**ES 233:** Environmental Policy  
**ES 234:** International Environmental Policy  
**ES 242:** Marine Conservation and Policy\*  
**ES 265:** Global Public Health\*  
**ES 276:** Global Change Ecology\*  
**ES 283:** Env Hum: Stories of Crisis & Resilien  
**ES 297:** Sustainable Business Seminar  
**ES 319:** Conservation Biology\*  
**ES 337:** Climate Fiction  
**ES 343:** Environmental Change\*  
**ES 344:** Marine Fisheries Management\*  
**ES 346:** Global Food Policy  
**ES 358j:** Ecological Field Study\*  
**ES 364:** Climate Change, Justice and Health  
**ES 366:** Environment and Human Health\*  
**ES 371:** Current Topics in Environmental Scien.  
**ES 397:** Balan. Community Econ & Conservat.

### History

**HI 248:** Nuclear Visions, Env. Realities  
**HI 397:** Environmental History

### Philosophy

**PL 216:** Philosophy of Nature  
**PL 243:** Environmental Ethics  
**PL 328:** Radical Ecologies

### Science, Technology, and Society

**ST 215:** Weather, Climate, and Society

## Focus Area

Four or courses (see p. 2)

## Culminating Experience

Choose one of following based on focus area

**ES 494:** Problems in Environmental Science  
**OR** Bigelow Semester and writing project  
**For Public Health**  
**ES 493:** Environmental Policy Practicum **OR**  
**ES 494:** Problems in Environmental Science

## Senior Colloquia Required

**ES 401 and 402:** Senior Colloquium  
 (Can take simultaneously with 4 other courses)

## Notes:

\* Cannot also count for science or focus group

Additional course options may be approved by the ES Program Director

# Colby Environmental Science Major Focus Areas

Choose one of the following Focus Areas

Biodiversity & Conservation	Aquatic Sciences (Freshwater & Marine)	Ecosystem Ecology	Public Health	Energy & Climate	Independent Focus																																																											
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