

# **Environmental Sciences - Major**

**Degrees offered:** *BS*

**Minor:** *Yes*

## **Courses required for majors and appropriate for beginning students:**

- Environmental Studies and Sciences 150: Environment and Society (F2i) - No prerequisites. Designed for Environmental Studies and Environmental Science minors, but also suitable for non-minors, this course covers a variety of contemporary environmental issues. - SPRING
- Biology 120: Environmental Science (F7) – No prerequisites. This course focuses on a scientific understanding of the environment as well as on people's impact upon the natural world. This lecture course has accompanying laboratory that must be taken with the class. This course will not satisfy a course requirement for the major in Biology. FALL
- Chemistry 120: General Chemistry I (F7) – No prerequisites. A study of the basic concepts and principles of chemistry. This lecture course has accompanying laboratory that must be taken with the class FALL
- Geology 111: Earth System Science (F7) – No prerequisites. A study of the dynamic interaction of earth, water, air, and life. Emphasis is placed on the geology of National Parks, and the ways that geological knowledge is acquired. This lecture course has accompanying laboratory that must be taken with the class. SPRING

**Required courses in other departments:** N/A – since Environmental Sciences is a Program, and not a department, all of its required courses are in other departments.

## **Recommended courses for beginning students:**

- Geology 214: Environmental Hydrogeology (F7, F11) - FALL
- Anthropology/Sociology 271: Ecological Anthropology– FALL
- History 105: Diseases and Epidemics (F2, F3) – FALL
- Humanities 201– Search for Values, Prof Jackson' section (F1) – FALL
- International Studies 340: Global Ecopolitics (F2i, F8) – SPRING
- Interdepartmental 225 – Geographic Information System (F6) – SPRING
- Mathematics 111 – Elementary Probability and Statistics (F6) – FALL and SPRING
- Philosophy 302: Environmental Ethics – FALL
- Religious Studies 101: The Bible (Hotz's section only). (F1) FALL

## **Latest time to begin a major and graduate on schedule:**

- Sophomore year

**AP credit:**

- See [AP Exam table](#) for details

**Courses that close quickly:**

- Biology 120: Environmental Science (F7). FALL
- Environmental Studies and Sciences 150: Environment and Society (F2i). SPRING
- History 105: Disease & Epidemics (F2, F3). This course is open to first- and second-year students only and is typically in high demand. FALL

**Courses with time-of-year limitations:**

- INTD 150 should ideally be taken in the spring of the first year.

# Environmental Sciences - Minor

## **Courses –required for the minor and appropriate for beginning students:**

- Environmental Studies and Sciences 150: Environment and Society (F2i) - No prerequisites. Designed for Environmental Studies and Environmental Science minors, but also suitable for non-minors, this course covers a variety of contemporary environmental issues. - SPRING
- Biology 120: Environmental Science (F7) – No prerequisites. This course focuses on a scientific understanding of the environment as well as on people's impact upon the natural world. This lecture course has accompanying laboratory that must be taken with the class. This course will not satisfy a course requirement for the major in Biology. FALL
- Chemistry 120: General Chemistry I (F7) – No prerequisites. A study of the basic concepts and principles of chemistry. This lecture course has accompanying laboratory that must be taken with the class FALL
- Geology 111: Earth System Science (F7) – No prerequisites. A study of the dynamic interaction of earth, water, air, and life. Emphasis is placed on the geology of National Parks, and the ways that geological knowledge is acquired. This lecture course has accompanying laboratory that must be taken with the class. SPRING
- Geology 214: Environmental Hydrogeology (F7, F11) - No prerequisites. The application of geologic principles to understand the response of our environment to natural and anthropogenic forces of change. Emphasis is placed on sustainability, and the hydrologic cycle. This lecture course has accompanying laboratory that must be taken with the class. FALL
- Math 115: Applied Calculus (F6) - No prerequisites. This one-semester course presents an introduction to applied mathematics and an overview of calculus: applications of the derivative, the definite Integral, the Fundamental Theorem of Calculus, partial derivatives and double integrals. FALL and SPRING
- Physics 111: Fundamentals of Physics (F6, F7) – No prerequisites. Suitable for both science and non-science majors, this calculus-based course is the first in a year-long sequence covering the classical fields of physics. This lecture course has accompanying laboratory that must be taken with the class. FALL and SPRING

**Required courses in other departments:** N/A – since Environmental Sciences is a Program, and not a department, all of its required courses are in other departments.

## **Recommended courses in other departments appropriate for beginning students**

- Anthropology/Sociology 271: Ecological Anthropology– FALL
- History 105: Diseases and Epidemics (F2, F3) – FALL
- Humanities 201– Search for Values, Prof Jackson' section (F1) – FALL
- International Studies 340: Global Ecopolitics (F2i, F8) – FALL
- Interdepartmental 225 – Geographic Information System (F6) - SPRING
- Philosophy 302: Environmental Ethics – FALL

**Courses that close quickly:**

- Biology 120: Introduction to Environmental Sciences (F7) - FALL
- Geology 111: Earth System Science (F7) - SPRING

**Courses not to be taken concurrently:**

Avoid taking more than two Introductory Science Courses with lab per semester

**Courses with time-of-year limitations:**

- ENVS 150 should ideally be taken before the start of their junior year.