

# Environ Sci, Policy, and Management (ESPM)

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## **ESPM 2 The Biosphere 3 Units**

**Department:** Environ Sci, Policy, and Management

**Course level:** Undergraduate

**Term course may be offered:** Fall

**Grading:** Letter grade.

**Hours and format:** 3 hours of Lecture and 1 hour of Discussion per week for 15 weeks.

An introduction to the unifying principles and fundamental concepts underlying our scientific understanding of the biosphere. Topics covered include the physical life support system on earth; nutrient cycles and factors regulating the chemical composition of water, air, and soil; the architecture and physiology of life; population biology and community ecology; human dependence on the biosphere; and the magnitude and consequences of human interventions in the biosphere.

## **ESPM 6 Environmental Biology 3 Units**

**Department:** Environ Sci, Policy, and Management

**Course level:** Undergraduate

**Term course may be offered:** Fall

**Grading:** Letter grade.

**Hours and format:** 2 hours of Lecture and 1 hour of Discussion per week for 15 weeks.

**Prerequisites:** One course in introductory college biology is recommended. Intended for nonscience majors.

Basic biological and ecological principles discussed in relation to environmental disruptions. Human interactions with the environment; their meaning for animals and plants. Discussion of basic ecological processes as a basis for understanding environmental problems and formulating strategies for their solution.

Instructor: Chapela

## **ESPM 9 Environmental Science Case Study Seminar 3 Units**

**Department:** Environ Sci, Policy, and Management

**Course level:** Undergraduate

**Term course may be offered:** Spring

**Grading:** Letter grade.

**Hours and format:** 3 hours of Seminar per week for 15 weeks.

Utilizing a field intensive seminar format, the course will introduce lower division students to the process of addressing real environmental problems. Through a progression of case studies, students will explore a spectrum of research design and implementation approaches. By the end of the semester, they will be able to frame a researchable question, design a protocol for gathering relevant information, analyze the information, and derive an objective conclusion. Throughout the semester, students will present case study results in oral and written form.

Instructors: Fairfax, Spencer

## **ESPM C10/L & S C30V Environmental Issues 4 Units**

**Department:** Environmental Science, Policy, and Management; Environ Sci, Policy, and Management; Letters and Science

**Course level:** Undergraduate

**Terms course may be offered:** Fall and spring

**Grading:** Letter grade.

**Hours and format:** 3 hours of Lecture and 1.5 hours of Discussion per week for 15 weeks.

Relationship between human society and the natural environment; case studies of ecosystem maintenance and disruption. Issues of economic development, population, energy, resources, technology, and alternative systems.

Students will receive no credit for C10 after taking 10. Instructor: Welter