

ENVIRONMENTAL SCIENCE AND RESOURCE MANAGEMENT

Environmental Science is a multidisciplinary field integrating topics from the geosciences, physical sciences, biological sciences, and public policy (including economic, legal, and social aspects) as they pertain to understanding working of the earth's ecosystems and the interplay of humans within those systems.

ESRM V01 Introduction to Environmental Issues 3 Units

Same-As: BIOL V10

In-Class Hours: 52.5 lecture

This course is an examination and analysis of the biological sciences within the context of the interrelationship between human populations and their natural surroundings. The characteristics of natural systems are described and the effects and impacts of human activities on these systems are considered. The course introduces the principles of scientific inquiry and experimental methodology in the study of ecological concepts and environmental issues. Alternatives and approaches to deal with environmental problems are considered and evaluated.

Grade Modes: Letter Graded

Field Trips: May be required

Credit Limitations: see counselor.

Degree Applicability: Applies to Associate Degree

AA/AS GE: A1

Transfer Credit: CSU, UC

UC Credit Limitations: None

CSU GE-Breadth: B2, E

IGETC: 5B

ESRM V02 Introduction to Environmental Science 3 Units

In-Class Hours: 52.5 lecture

This course is an introduction to the physical science and geoscience concepts related to the natural environment. It is an in-depth look at the science underlying critical environmental issues, including various types of pollution, resource utilization and depletion, atmospheric changes, energy sources, water resources and quality, waste management, and urban environments. The role of the physical sciences in supporting sustainability will be investigated.

Grade Modes: Letter Graded

Field Trips: May be required

Degree Applicability: Applies to Associate Degree

AA/AS GE: A2

Transfer Credit: CSU, UC

UC Credit Limitations: None

CSU GE-Breadth: B1

IGETC: 5A

ESRM V03 Introduction to Environmental Policy and Natural Resource Management 3 Units

Same-As: POLS V12

In-Class Hours: 52.5 lecture

This course examines American environmental policy and how natural resources are managed. The historical, global, and ethical dimensions of how our society relates to the environment are analyzed from an interdisciplinary perspective.

Grade Modes: Letter Graded, Student Option- Letter/Credit, Pass/No Pass Grading

Field Trips: May be required

Degree Applicability: Applies to Associate Degree

AA/AS GE: B2

Transfer Credit: CSU, UC

UC Credit Limitations: None

CSU GE-Breadth: D

IGETC: 4

ESRM V10 Environmental Ecology 3 Units

In-Class Hours: 52.5 lecture

This course examines key processes regulating terrestrial ecosystem productivity and function. Specific focus is placed on plant-soil interactions above and below ground. This course includes study of the functional relationships between soil, plant, and atmospheric influences on the development and sustainability of terrestrial biomes.

Grade Modes: Letter Graded, Student Option- Letter/Credit, Pass/No Pass Grading

Field Trips: May be required

Degree Applicability: Applies to Associate Degree

AA/AS GE: A1

Transfer Credit: CSU, UC

UC Credit Limitations: None

CSU GE-Breadth: B2

IGETC: 5B

ESRM V14 Conservation of Natural Resources 3 Units

In-Class Hours: 52.5 lecture

This course explores Earth's natural resources and issues pertaining to their management, conservation, and preservation. Renewable and non-renewable resources will be investigated, and conceptual methods and models for analyzing Earth's hydrosphere, geosphere, biosphere, atmosphere, and pedosphere (soils) will be developed. Discussion will include topics related to ecological relationships of water, energy sources, air, soil, grasslands, wetlands, forests, wildlife, and agricultural factors.

Grade Modes: Letter Graded, Student Option- Letter/Credit, Pass/No Pass Grading

Field Trips: May be required

Degree Applicability: Applies to Associate Degree

AA/AS GE: A1

Transfer Credit: CSU, UC

UC Credit Limitations: None

CSU GE-Breadth: B2

IGETC: 5B

- Environmental Studies, Proficiency Award (<http://catalog.vccd.edu/ventura/programs-courses/environmental-science-resource-management/environmental-studies-pa/>)