

# ENVIRONMENTAL STUDIES

## ENVIRONMENTAL STUDIES (ENVS)

DIVISION: Natural Sciences

### ENVS 001 INTRODUCTION TO ENVIRONMENTAL SCIENCE

#### 4 unit

*Transfer Credit: CSU; UC*

Relationship of living organisms to the environment, including human impact on the atmosphere, hydrosphere, lithosphere and biosphere. Emphasis is placed on understanding of biological and physical science issues currently faced by society. Includes laboratory and field investigation of ecosystems and the environment. No credit if taken after BIOL 037, BIOL 040 or PHSC 037. Total of 54 hours lecture and 54 hours laboratory.

**Grade Mode:** *Audit, Letter Grade, Pass/No-Pass*

### ENVS 002 HUMAN IMPACT ON THE ENVIRONMENT

#### 3 unit

*Transfer Credit: CSU; UC*

*C-ID: ENVS 100*

Interaction of human populations with local and global environments. Interrelationships of ecosystem and biosphere components. No credit if taken after BIOL 036 or GEOG 010. Total of 54 hours lecture.

**Grade Mode:** *Audit, Letter Grade, Pass/No-Pass*

### ENVS 003 CHEMISTRY AND THE ENVIRONMENT

#### 4 unit

*Transfer Credit: CSU; UC*

**Prerequisite(s):** *Intermediate Algebra or placement into any Math course numbered 001-099*

Introduction to basic chemistry and environmental science with an emphasis on how chemical principles relate to everyday life. Topics include: indigenous practices, natural resources, water usage, pollution, healthy food, chemical additives to food, common organic chemicals, pesticides, drugs, household products, redox, soap-making, nuclear issues and composting. Required field trips. See Class Schedule for details. Total of 54 hours lecture and 54 hours laboratory.

**Grade Mode:** *Audit, Letter Grade, Pass/No-Pass*

### ENVS 010 ENVIRONMENTAL HORTICULTURE

#### 3 unit

*Transfer Credit: CSU; UC*

*C-ID: AG-PS 206L*

Introduction to environmental horticulture surveying the structure and function of horticultural practices in the laboratory, agricultural and natural landscapes. Examination of plant structures, growth processes, physiology, propagation, growth media, biological competitors, environmental variables, and post-harvest factors of food, fiber, and ornamental plants. Total of 36 hours lecture and 54 hours laboratory.

**Grade Mode:** *Letter Grade, Pass/No-Pass*

### ENVS 011 SOIL SCIENCE

#### 3 unit

*Transfer Credit: CSU; UC*

*C-ID: AG-PS 128L*

Physical, chemical and biological properties of soil. Focus on soil classification, derivation, use, function and management including erosion, moisture retention, structure, cultivation, organic matter and microbiology. Laboratory topics include soil type, classification, soil reaction, soil fertility and physical properties of soil. Total of 36 hours lecture and 54 hours of laboratory.

**Grade Mode:** *Letter Grade, Pass/No-Pass*

### ENVS 012 PLANT MATERIALS AND USAGE I

#### 3 unit

*Transfer Credit: CSU; UC*

*C-ID: AG-EH 108L*

Identification, growth habits, culture and ornamental use of landscape and indoor plants adapted to climates of California. Plants emphasized will come from the current California Association of Nurseries and Garden Centers (CANGC) and Professional Landcare Network (PLANET) Certification Tests Plant Lists. Covers those plants best observed and studied in the spring of the year. Plant materials from local regions will also be included, with special emphasis on drought tolerant plants. Total of 36 hours lecture and 54 hours laboratory.

**Grade Mode:** *Letter Grade, Pass/No-Pass*

### ENVS 020 INDEPENDENT STUDY

#### 1 unit

*Transfer Credit: CSU*

**Recommended Preparation:** *Enrollment in or completion of any college-level (1-99) course in the Natural Sciences*

**Enrollment Limitation:** *Permission of the Dean*

Independent, faculty-guided student inquiry, project, research, laboratory experiment and/or field investigation. Total of 54 hours laboratory.

**Grade Mode:** *Letter Grade, Pass/No-Pass*

### ENVS 030 ENVIRONMENTAL FIELD INVESTIGATIONS

#### 2 unit

*Transfer Credit: CSU; UC*

**Prerequisite(s):** *Enrollment in or completion of ENVS 001 or ENVS 002*

Field investigation of the environment in an area of selected interest.

Required: Instructional field trips. See Class Schedule for details. Total of 36 hours lecture and 18 hours laboratory.

**Grade Mode:** *Audit, Letter Grade, Pass/No-Pass*

### ENVS 040 ENVIRONMENTAL FIELD LABORATORY

#### 1 unit

*Transfer Credit: CSU; UC*

**Prerequisite(s):** *Enrollment in or completion of ENVS 001, 002 or 003*

Observation and interpretation of environmental phenomena in the field. Required instructional trips. Recommended enrollment in or completion of any Environmental Studies lecture or lecture/lab course. Total of 18 hours lecture and 18 hours laboratory.

**Grade Mode:** *Audit, Letter Grade, Pass/No-Pass*