# ENVIRONMENTAL SCIENCE (ENVS)

## INTRODUCTION TO ENVIRONMENTAL SCIENCE
**ENVS&101**

5 Credits/Units

33 hours of lecture / 44 hours of lab

**Prerequisite:** Eligibility for MATH 096.

Introduction to current topics in environmental science and fundamental principles of ecology. Topics include human population growth, natural resource use, biodiversity, climate change, species interactions, habitat alteration and fragmentation, ecosystem services, carrying capacity and sustainability. Labs will be hands-on investigations of the local environment where students will get an opportunity to collect samples and analyze the environmental quality through the study of soils, biodiversity and water. Many of the labs will be conducted in the field. This course is primarily intended for students majoring or minoring in environmental science or environmental studies. [NS]

## INTEGRATED ENVIRONMENTAL SCIENCE
**ENVS 109**

5 Credits/Units

33 hours of lecture / 44 hours of lab

**Prerequisite:** A grade of “C” or better in MATH 030 or eligibility for MATH 092.

Introduction to scientific inquiry using the foundations of physical, earth and life sciences. Focus on developing the skills to answer basic questions about scientific phenomena through scientific investigations and the ability to assist and guide others through this process. Designed for non-science majors and addressing the curriculum needs of early childhood educators. [NS]

## FIELD STUDIES IN ENVIRONMENTAL SCIENCE
**ENVS 218**

7 Credits/Units

22 hours of lecture / 110 hours of lab

**Prerequisite:** 5 credits in any Environmental Science, Geology or BIOL 101, 140, 141, 142, 143, 145, 150, 208, 221, 222, 223, 224 or BIOL 100 with a grade of “C” or better, or consent of Instructional Unit.

Learning field techniques for research in environmental science, interacting with scientists and others working in the field, and participating in the collection of research data. Topics include the interactions between scientists and other land managers in our natural environments. Projects vary depending on student interest and current work in the field area visited. [NS, SE]

## ENVIRONMENTAL SCIENCE: PROBLEM SOLVING
**ENVS 221**

5 Credits/Units

33 hours of lecture / 44 hours of lab

**Prerequisite:** A grade of “C” or better in ENVS 211.

Second of a three-course sequence in Environmental Science. Introduction to applied techniques in environmental science including: environmental sampling design and measurement, environmental assessment and mitigation, and environmental modeling and problem solving. [SE]

## ENVIRONMENTAL POLITICS
**ENVS 231**

5 Credits/Units

55 hours of lecture

Examines the relationship between industrial civilization and the natural environment by exploring underlying ecological philosophies and the economic and political processes by which environmental decisions are made. Emphasis on critical thinking and evaluating alternative points of view. [SS, SE]

## SPECIAL PROJECTS
**ENVS 290**

5 Credits/Units

Opportunity to plan, organize, and complete special projects approved by the department. [GE]

## SUSTAINABILITY & ENVIRONMENTAL PRACTICES
**ENVS 430**

5 Credits/Units

44 hours of lecture / 22 hours of lab

Investigate how environmental problems have arisen due to human activities (global warming, air pollution, waste disposal) and their impact on corporate practices, to include the corporate mission, competitive strategy, technology choices, production development decisions, production processes, and corporate responsibilities. Regulations and permits will be reviewed from the perspective of local planning departments. Changes to the environment by using resources at rates that exceed the system's ability to replenish them will also be covered. [NS]