

# ENVIRONMENTAL ENGINEERING (ENVE)

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## ENVE 310

### Introduction to Environmental Engineering

This course provides an overview of how environmental engineers integrate biological, chemical, and physical sciences with engineering to develop solutions to environmental problems. Topics include air pollution, water pollution, solid waste, fate and transport of contaminants, and pollution prevention.

**Lecture: 3 Lab: 0 Credits: 3**

## ENVE 401

### Introduction to Water-Resources Engineering

The theory and practice involved in planning and design of urban water systems are introduced in this course. Topics include storm water management, water supply distribution, and waste water collection and transport systems.

**Lecture: 3 Lab: 0 Credits: 3**

## ENVE 404

### Water and Wastewater Engineering

Water quality and water supply issues make up this course including the physical, chemical, and biological processes involved in water treatment. Process design, operations, and management are also considered.

**Lecture: 3 Lab: 0 Credits: 3**

## ENVE 463

### Introduction to Air Pollution Control

Air pollution sources and characteristics of source emissions, atmospheric reactions, effects of pollutants, and techniques of emission control are presented in this course. Legal and administrative aspects of air pollution control are also described.

**Lecture: 3 Lab: 0 Credits: 3**

## ENVE 476

### Engineering Control of Industrial Hazards

Design of control systems to enhance occupational safety and health; how to recognize and control existing or potential safety and health hazards.

**Prerequisite(s):** [(ENVE 426\*)]An asterisk (\*) designates a course which may be taken concurrently.

**Lecture: 3 Lab: 0 Credits: 3**

## ENVE 485

### Industrial Ecology

This course provides an overview of industrial ecology, the study of the science and engineering relationships between cultural and ecological systems, and how those relationships can be managed to achieve a more sustainable economy. Because it is an interdisciplinary field, topics include technology (science and engineering), public policy and regulatory issues, and business administration.

**Lecture: 3 Lab: 0 Credits: 3**

## ENVE 497

### Special Project

Special design project under individual supervision of instructor. Consent of instructor is required.

**Credit: Variable**