ENVIRONMENTAL ENGINEERING (ENVE)

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