

# ENMG - Environmental Management

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## ENMG 5000 Environmental Science (3)

This is a course that provides a broad overview of the environmental fields. The student will obtain the base knowledge necessary for additional environmental management courses. The topics of law, compliance audits, accounting, land and water resources, air quality, waste management, and pollution control are included in this course.

## ENMG 5100 Environmental Law (3)

This course reviews the substantive law concerning the enforcement of federal and state environmental laws as well as process for imposing or avoiding liability. Topics to be covered include hazardous waste, toxic torts, environmental cleanup programs, and federal regulations. **Prerequisite:** ENMG 5000 or approval of waiver by the instructor.

## ENMG 5200 Environmental Regulations and Compliance Auditing (3)

This course continues Environmental Law and also studies the compliance auditing issues that management of environment must encompass to meet the various regulations. Case studies are also used for the research of topics in compliance auditing. **Prerequisite:** ENMG 5100.

## ENMG 5300 Environmental Accounting (3)

This course covers corporate environmental accounting; activity-based costing; federal, state, and municipal accounting; and quality control. Topics also covered include the financial and economic implications of pollution prevention, compliance projects, and procedures required for environmental accounting. Some case studies will be used for these topics.

## ENMG 5400 Environmental Sustainability (3)

This course introduces students to the fundamental principles, concepts, and knowledge in the area of environmental sustainability relative to the impact that our current lifestyles and population trend have on the attainment of a sustainable society. A primary goal of the course is to present opportunities to analyze specific environmental issues related to sustainability and to reflect upon how and to what extend society's behaviors impact the problem and the potential for individual change and civic engagement.

## ENMG 5410 Environmental Ethics and Decision Making (3)

This course is an advanced study of environmental issues from a moral and philosophical approach. This course explains the relationship between humans and their environment and raises the question of the role an individual plays as a citizen of a global society.

## ENMG 5420 Natural Resource Management and Sustainability (3)

This course focuses on natural resource management and how it relates to sustainability. Students will be introduced to natural resource management with an emphasis on recognition, inventory, usage, and conservation. The primary viewpoint will be that of the United States, but global natural resource issues will be discussed as well.

## ENMG 5430 Energy Policy and Sustainability (3)

This course introduces students to the fundamental principles, concepts, and methods of energy and environmental

sustainability, including renewable/alternative energy and emerging technologies. The course explores the origins of energy sources and the principles underlying their use and evolution into their present forms. The course examines the nature and scope of energy and resource problems and investigates ideological, political, and institutional forces that shape policy-making and implementation.

## ENMG 6100 Management of Land and Water Resources (3)

This course covers strategies used in management of multiple-use resources. A variety of management techniques will be examined that pertain to conservation and protection of resources used by the public, including recreational waters, private and public lands, and watersheds. Land use regulations and water and land rights are restrictions that will be investigated. The role of public policy and its development will also be covered. **Prerequisite:** ENMG 5200.

## ENMG 6110 Management of Air Quality (3)

Sampling techniques of air pollution will be introduced. Air pollutants will be analyzed in terms of their classification, source, and impact on air quality. Effects of air pollution on human health will be studied. Case studies will be used to identify management of air pollutants. **Prerequisite:** ENMG 5200.

## ENMG 6120 Waste Management and Pollution Control (3)

Focuses on management techniques of waste disposal, including liquid and solid effluents from industry. Methods for managing waste collection, recycling, and transportation of nonhazardous and hazardous materials will be studied. Plans will be developed for establishing an environmental monitoring system. Legal, regulatory, and operational laws governing disposal of waste including hazardous waste will be covered, as well as management for recovery of brown fields. **Prerequisite:** ENMG 5200.

## ENMG 6200 Environmental Risk Management and Strategies (3)

This course integrates the types of information used for environmental management, including scientific, engineering, economic, and congressional information, into a final project. Methods used for retrieval of information will include online resources, use of CD-ROMs, and bibliographical indexes to obtain the most current information for the student's final project. **Prerequisite:** Completion of all other required courses for the MS in environmental management.