

Department of Environmental Health

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The mission of the Department of Environmental Health is to sustain excellence in teaching, research and community service relevant to environmental issues and their impacts on human health.

The department offers a graduate program leading to the MS degree in Environmental Sciences (Major: Environmental Health). For details regarding the MS degree, refer to Environmental Sciences in the Interdisciplinary Research Centers and Programs section and the Admissions section in catalogue.

In view of the increasing interest in development and its impact on the human environment, a variety of courses offered by this department are made available to students in other fields.

Graduates of the Environmental Health program may occupy senior or intermediate posts in:

- Government agencies such as the Ministry of Health, Ministry of the Environment, municipalities, or health centers
- The private sector, which offers a variety of job opportunities in industry, research institutions, universities, schools, and private business
- International agencies

ENHL 302 Principles of Environmental Assessment 2.0; 2 cr.

A course that provides a critical understanding of the nature and extent of ecosystem degradation resulting from developmental projects. This course introduces ecological and socio-economic methodologies for environmental impact-assessment of projects of public health importance.

ENHL 303 Pollution of Marine Environment 2.0; 2 cr.

A course that outlines the marine environment, focusing on sources and types of pollutants, environmental degradation, and its impact. Emphasis is placed on marine pollution management. International legislation for the conservation of the marine environment is introduced.

ENHL 304 Advanced Water and Wastewater Quality and Treatment 3.0; 3 cr.

A course that covers water source characteristics, factors influencing water quality and consequent public health impacts, regulatory protection of source waters, source water and wastewater control techniques, and public health concerns of wastewater reclamation and reuse.

ENHL 306 Management of Hazardous Wastes 3.0; 3 cr.

A course that covers sources and types of hazardous wastes, treatment and disposal technologies, hazardous waste management: components and priorities, risk assessment and risk management, and site remediation and public health concerns.

ENHL 308 Tutorial 1–3 cr.

A tutorial on special environmental health projects of interest to the students. A written report is required.

ENHL 310 Toxicology and Environmental Health Hazards 3.0; 3 cr.

A course that reviews the essentials of toxicology: dose response, toxicokinetics (absorption, distribution, metabolic conversion, elimination), and the molecular basis for toxic action, target organ toxicity, mutagenesis, teratogenesis, and carcinogenesis. Selected chemical and biological agents that adversely affect man and environmental quality are introduced as case studies.

ENHL 312 Occupational Health 2.3; 3 cr.

An introduction to the general principles relating to occupational health. Issues related to work, work environment and organization, and their impact on the physical and mental well-being of employees. Principles of recognizing, evaluating, and controlling work hazards with an emphasis on the multidisciplinary nature of the field of occupational health. Various disciplines involved in occupational health and used by occupational health professionals to safeguard the health of employees, including toxicology, safety, hygiene, epidemiology, ergonomics, occupational medicine, psychology, and sociology. This course is designed for students of multiple educational and training backgrounds and does not require prerequisite knowledge.