ENVIRONMENTAL HEALTH SCIENCES, M.P.H.

Learning Outcomes

- Define environmental stressors and hazards, and identify sources, pathways of exposure, and ecosystem components and human populations most susceptible to exposure, as well as reasons for community vulnerabilities and disparities in environmental hazard exposure.
- Apply principles of toxicology to identify and quantify acute and chronic hazards associated with individual compounds and contaminant mixtures in terms of ecotoxicology and human health.
- Discuss the basic principles of the environmental fate of contaminants and how they are introduced into the air, water, soil, sediments and food and then transported through the environment and how these processes define exposure.
- Apply toxicological hazard and exposure assessment and statistical techniques in assessing the risks associated with environmental stressor in the home, workplace and community environments and natural settings.
- Express knowledge of important local, state and federal laws that regulate and protect environmental quality and health, and explain the responsibilities of agencies, organizations, communities and individuals for protecting, maintain and enhancing the environment.
- Identify approaches for preventing, mitigating and remediating environmental hazards, protecting populations from environmental hazards, and working with communities to address issues of environmental hazards via pollution source identification and management, health promotion, education, ecological forecasting and behavior modification.
- Review, critique, evaluate and synthesize the scientific merit of environmental health research articles, presentations and evaluate the scientific merit and feasibility of environmental health study designs.
- Apply findings, methods and approaches from case studies to contemporary environmental issues
- Develop assessment tools to measure the effectiveness of environmental or risk management approaches used to prevent or minimize exposure or to reduce the environmental hazard.

Degree Requirements (42-43 Hours)

Curriculum requirements for degrees in the Department of Environmental Health Sciences are listed below.

Coursework

Course	Title	Credits
PUBH 725	Quantitative Methods for Public Health Practice	5
PUBH 726	Qualitative Methods for Public Health Practice	3
PUBH 730	Public Health Systems, Policy, and Leadership	3
PUBH 735	Practical Applications of Public Health Planning	4
PUBH 678	Transforming Health Care for the Future	1
ENHS 660	Concepts of Environmental Health Science	3
ENHS 761	Ecotoxicology of Aquatic Systems	3
ENHS 770	Microbial Processes and Pollution	3
ENHS 775	Resource Management and Environmental Impact Assessment	3
ENHS 771	Environmental Health Sciences Seminar	1
ENHS 798	Public Health Practice	6
ENHS 750	MPH Capstone Course	2
Select Elective Departmental Major and Cognate Courses		6
Total Credit Hours		**43**