

# MASTER OF SCIENCE IN ENVIRONMENTAL HEALTH, PLAN A

This program provides graduate students with broad experience in environmental health. Our program is guided by the concepts and principles as delineated by the National Environmental Health Association, which defines environmental health as “the science and practice of preventing human injury and illness and promoting well-being by: identifying and evaluating environmental sources and hazardous agents and limiting exposures to hazardous physical, chemical, and biological agents in air, water, soil, food and other environmental media or settings that may adversely affect human health.” Recognizing that environments may also have beneficial impacts on communities, we also seek to understand the positive impact of built and natural environments on mental and physical health.

The flexible nature of this program allows students to design their graduate coursework to meet specific professional goals and will prepare students to work in a number of settings including public and private sectors as well as academia. Our goal is to provide students with critical analytic tools, subject-matter expertise, and problem-solving skills to be at the forefront of leadership and scholarship in the field of environmental health.

## Learning Outcomes

- 1) Evaluate, qualitatively and quantitatively, risks of exposures emanating from built and natural environments of public health concern.
- 2) Anticipate emerging environmental health issues.
- 3) Assess health impacts of environmental exposures.
- 4) Interpret control and remediation strategies to mitigate environmental hazards.
- 5) Describe management strategies for achieving programmatic goals in environmental health.
- 6) Develop strategies to obtain compliance within an environmental health regulatory framework.
- 7) Communicate environmental risk to technical and lay populations.

## Requirements Effective Fall 2023

Code	Title	Credits
<b>Core Requirements:</b>		
CIVE 526	Pollution, Exposure, and the Environment	3
Select one group from the following:		3
Group A:		
ERHS 502	Fundamentals of Toxicology	
Group B:		
ERHS 503	Toxicology Principles	
ERHS 504	Occupational and Environmental Toxicology	

ERHS 520	Environmental and Occupational Health Issues	3
ERHS 532 or PBHL 570	Epidemiologic Methods Epidemiology for Public Health	3
ERHS 560	Health Impact Assessment	2
STAR 511	Design and Data Analysis for Researchers I	4
Select one course from the following:		1
GRAD 550	STEM Communication	
PBHL 696	Public Health Group Study	
ERHS 699	Thesis	3-6
Electives (500-level or above) <sup>1, 2</sup>		5-8
<b>Program Total Credits:</b>		<b>30</b>

A minimum of 30 credits are required to complete this program.

<sup>1</sup> Electives must be approved by the student's advisor and graduate committee.

<sup>2</sup> PPA 555 is recommended if offered during the student's time on campus.