Environmental Health Track Requirements for Students Who Enrolled Prior to Fall 2018

The EH track employs an interdisciplinary approach to investigate and improve environmental and community health risks and provide evidence for health policies to mitigate these risks. Students in the ECH track integrate knowledge across disciplines to examine the “environment” in its broadest sense. The concept of place, including the natural, built, and social environment plays a central role in understanding environmental and community health. From climate change to chemical exposures to crime, students from a variety of backgrounds collaborate to study the health of communities. Students in the ECH track develop a strong methodological background in research methods and spatial analysis, including Geographic Information Systems (GIS). Students develop and interpret research to define, analyze, prevent, and control adverse influences of the environment and community on human health.

Track Specific Competencies

- Demonstrate methodological expertise in a discipline relevant to the study of environmental health, including: statistics, epidemiology, toxicology, risk assessment, and policy and regulation.
- Demonstrate proficiency in the use of geographic information systems (GIS)
- Demonstrate knowledge and expertise in at least one substantive area relevant to environmental health such as: health effects of air pollution, flame retardants, climate change/weather, water pollutants, vapor intrusion, or consumer products.
- Demonstrate understanding of human physiology and pathophysiology

Internship

All students in the Environmental Health Track complete PHP2070, Public Health Community Service Internship. The internship includes a core curriculum as well as a field experience tailored to the student’s public health interests and future career goals.

Thesis

All students are required to complete a thesis. Students work with faculty advisors to design a thesis project appropriate to their interests and career path in environmental health.

Core Curriculum Courses

Students in all tracks are required to complete the MPH Core Courses, which can be found in the pdf found on this page under Core Courses: [https://www.brown.edu/academics/public-health/mph/](https://www.brown.edu/academics/public-health/mph/)

Environmental Health Track Specific Requirements

Human Physiology: Students must take one of the following courses that cover important biological concepts that relate to environmental health issues
PHP2130, Human Biology for Epidemiology
or
PHP2222, Genetics, Human Population and Diseases
or
BIOL1820, Environmental Health and Disease

Environmental Health Methods Electives (choose1)
PHP2200, Intermediate Methods in Epidemiologic Research
PHP2260, Applied Epidemiologic Methods Using SAS
PHP2430, Analysis of Population Based Datasets
PHP2550, Practical Data Analysis
PHP2604, Statistical Methods for Spatial Data
Soc2612, Geographic Information Systems

*Environmental Health Substantive Electives*
- PHP1700, Current Topics in Environmental Health (If not taken to fulfill the core Environmental Health requirement)
- PHP1710, Climate Change and Human Health (if not taken as the core)
- PHP2220E, Topics in Environmental and Occupational Epidemiology (If not taken to fulfill the core Environmental Health requirement)
- PHP2325, Place Matters: Exploring Community-Level Contexts on Health Behaviors, Outcomes and Disparities
- BIOL1820, Environmental Health and Disease (If not taken to fulfill the Human Physiology requirement)
- ENVS1710, Environmental Health and Policy*
- ENVS1720, Environmental Justice: The Science and Political Economy of Environmental Health and Social Justice*
- GEOL1350, Weather and Climate*

Note that some electives require permission of your advisor and the MPH Program Director.

*Electives*

The total course requirement is 13, including both core requirements and electives. Each student works out an individualized elective plan, with the support of faculty advisors.