

CLIMATE AND HUMAN HEALTH (PHD)

Overview

The PhD in Climate and Human Health is designed to develop research and educational leaders who have transdisciplinary skills in data analytics, policy and regulation, implementation science, health equity, and community and workforce-based research with an emphasis on vulnerable populations and communities. "Climate" is interpreted broadly and can include heat and temperature, extreme weather events, wildfires, air quality, water systems, emerging hazardous exposures from "green" industries, and alterations to ecosystems with direct impacts on vector-borne and other infectious diseases.

"Health" is interpreted as both physical and mental health of all populations, especially vulnerable human populations. Graduates will have a strong knowledge base in the climate health sciences, research skills, education and mentorship skills, and leadership, communication and management training.

Degree Requirements

Core Courses

Code	Title	Hours
BIOS 6611	Biostatistical Methods I	3
BIOS 6612	Biostatistical Methods II	3
EHOH 6635	Climate Change and Health	3
EHOH 6617	Environmental & Occupational Epidemiology	3
EHOH 6638	Communication Skills for Public Health Impact	3
EHOH 7401	Climate Change and Worker Health	3
EPID 7605	Research Methods with Secondary Data Sources	3
EHOH 7631	Advanced Methods in Environmental & Occupational Health (select one)	2
or EHOH 7632	Advanced Field Methods in EOH	
EPID 7912	Developing a Research Grant	3
Total Hours		26

Elective Suggestions by Topic Area

Choose 15 credits from the areas below.

Climate Policy and Equity

Code	Title	Hours
EHOH 6641	Critical Policies in Global Health Engagement	3
EHOH 6618	Environmental Health Policy and Practice	3
HSMP 6616	Intro. to Health Policy Analysis and Communication	1
PUAD 5310	Principles of Policy Design	3
PUAD 5005	The Policy Process and Democracy	3

Occupational Climate Health

Code	Title	Hours
EHOH 6636	Occupational Safety and Ergonomics with Journal Clubs	3
EHOH 6628	Health Protection/Promotion in the Workplace.	3

EHOH 6633	International Travel and Health	1
EHOH 6639	Occupational Health Psychology	3
EHOH 6634	Spec Professions Protecting/Promoting Worker Health	1
EHOH 6619	Environmental Exposures and Health Effects	3

Climate Health Data Analytics and Exposure Assessment

Code	Title	Hours
EHOH 6656	Environmental Data Science for Public Health	3
EHOH 6624	Infectious Diseases, Environmental Contexts	3
EHOH 6619	Environmental Exposures and Health Effects	3
EHOH 6620	Risk Analysis & Decision Making	3
EHOH 6616	Toxic Effects of Environmental and Workplace Agents	3
EHOH 6627	Water Quality and Public Health	3
EHOH 6643	Air Quality and Public Health	3
BIOS 7719	Information Visualization	3
BIOS 6640	R for Data Science	3
BIOS 6642	Introduction to Python Programming	3

Climate-Related Disasters and Preparedness

Code	Title	Hours
EHOH 6625	Global Response to Disasters and Climate Crises	3
EHOH 6622	Intro to Public Health in Disasters	3
EHOH 6626	Disasters and Climate Crises: Practical Applications	3
EHOH 6642	Climate and Disaster Mental Health	3
EMED 8010	Climate Change and Medicine	4
EPID 6628	Global Health and Disasters	2

Dissertation Credits

Code	Title	Hours
Take 30 total credits:		
EHOH 8990	Doctoral Thesis	1-10