

MS-EHS, Area of Emphasis: Individualized Track (Effective Autumn 2022)

Required Coursework

	Credits
DEOHS Common Core	
BIOST 511 (<i>Medical Biometry I, Autumn</i>)	4
EPI 511 (<i>Introduction to Epidemiology, Autumn</i>)	4
HSERV 579 (<i>Structural Racism and Public Health, Autumn/Winter/Spring</i>)	1
ENV H 501 (<i>Foundations of Environmental & Occupational Health, Autumn</i>)	4
ENV H 502 (<i>Assessing & Managing Risks from Human Exposure to Env. Contaminants, Winter</i>)	4
ENV H 503 (<i>Adverse Health Effects of Environmental and Occupational Toxicants, Autumn</i>)	4
ENV H 580 (<i>Environmental and Occupational Health Sciences Seminar, Autumn/Winter/Spring</i>)	2 x 1 = 2 ¹
Area of Emphasis: Individualized Track	
Minimum of 10 credits of ENV H coursework²	≥10
Elective Courses³	≥ 19
Culminating Experience (Thesis)	
ENV H 583 (<i>Thesis Proposal Preparation, Spring</i>)	1
ENV H 700 (<i>Master's Thesis, All Quarters</i>)	9
Total Minimum Credits	62

1. Two quarters of ENV H 580 are required for a total of 2 credits.
2. Student works with their faculty adviser to identify ENV H courses appropriate to their interest and career goals.
3. Student works with their faculty adviser to identify additional courses to reach or exceed the total minimum credit requirement. Elective courses can be ENV H courses or courses from other prefixes (e.g., EPI, BIOST, GH, etc.).

Additional Requirements

- Students in this degree program are required to complete a research thesis.

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Sample Schedule

The schedule below includes *non-elective courses only*. Students work with their faculty adviser to identify additional courses to reach or exceed the total minimum credit requirement. Elective courses can be ENV H courses or courses from other prefixes (e.g., EPI, BIOST, GH, etc.).

FIRST YEAR		
Autumn Quarter		
BIOST 511	Medical Biometry I	4 cr.
EPI 511	Introduction to Epidemiology	4 cr.
ENV H 501	Foundations of Environmental & Occupational Health	4 cr.
ENV H 503	Adverse Health Effects of Environmental and Occupational Toxicants	4 cr.
Non-Coursework Milestones: Work 1-on-1 with your Initial Faculty Mentor to identify possible thesis projects		
Winter Quarter		
ENV H 502	Assessing & Managing Risks from Human Exposure to Env. Contaminants	4 cr.
ENV H 580	Environmental and Occupational Health Seminar	1 cr.
Non-Coursework Milestones: Continue working with your Faculty Mentor to identify possible thesis projects / Identify a Thesis Adviser by the end of the quarter		
Spring Quarter		
HSERV 579	Structural Racism and Public Health	1 cr.
ENV H 580	Environmental and Occupational Health Seminar	1 cr.
ENV H 583	Thesis Proposal Preparation	1 cr.
ENV H 700	Master's Thesis	1 cr.
Non-Coursework Milestones: Write thesis proposal and form Thesis Committee		
Summer Quarter		
Non-Coursework Milestones: Begin thesis project as outlined in thesis proposal		
SECOND YEAR		
Autumn Quarter		
ENV H 700	Master's Thesis	3 cr.
Non-Coursework Milestones: Continue work on thesis project		
Winter Quarter		
ENV H 700	Master's Thesis	2 cr.
Non-Coursework Milestones: Continue work on thesis project		
Spring Quarter		
ENV H 700	Master's Thesis	3 cr.
Non-Coursework Milestones: Present at Graduate Student Research Day / Defend and submit thesis		

Degree Competencies

Upon completion of this degree program, you will be able to:

School of Public Health -- All MS Students

- Explain public health history, philosophy and values
- Identify the core functions of public health and the 10 Essential Services
- Explain the role of quantitative and qualitative methods and sciences in describing and assessing a population's health
- List major causes and trends of morbidity and mortality in the US or other community relevant to the school or program
- Discuss the science of primary, secondary and tertiary prevention in population health, including health promotion, screening, etc.
- Explain the critical importance of evidence in advancing public health knowledge
- Explain effects of environmental factors on a population's health
- Explain biological and genetic factors that affect a population's health
- Explain behavioral and psychological factors that affect a population's health
- Explain the social, political and economic determinants of health and how they contribute to population health and health inequities
- Explain how globalization affects global burdens of disease
- Explain an ecological perspective on the connections among human health, animal health, and ecosystem health (e.g., One Health)
- Recognize the means by which social inequities and racism, generated by power and privilege, undermine health

DEOHS -- MS in Environmental Health Sciences

- Apply the major components of the environmental and occupational health framework (problem formulation, hazard identification, dose-response assessment, exposure assessment, risk characterization, risk communication, risk management, evaluation, stakeholder engagement, and research) in order to address environmental public health problems experienced in the community or work environment
- Use epidemiological and statistical techniques to describe and analyze environmental and occupational health data
- Formulate hypotheses and design experiments to test such hypotheses aimed at advancing knowledge in environment and health sciences