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

Required Coursework

		Credits		
DEOHS Common Core				
BIOST 511 (Medical Biometry I, Autumn)		4		
EPI 511 (Introduction to Epidemiology, Autumn)		4		
HSERV 579 (Structural Racism and Public Health, Autumn/Winter/Spring)		1		
ENV H 501 (Foundations of Environmental & Occupational Health, Autumn)		4		
ENV H 502 (Assessing & Managing Risks from Human Exposure to Env. Contaminants, Winter)		4		
ENV H 503 (Adverse Health Effects of Environmental and Occupational Toxicants, Autumn)		4		
ENV H 580 (Environmental and Occupational Health Sciences Seminar, Autumn/Winter/Spring)		2 x 1 = 2 ¹		
Individualized Track				
Student works with faculty adviser to design a course of study tailored to their research interests and career goals. Must include a minimum of 10 credits of ENV H courses.		≥10		
Elective Courses ²		varies		
Culminating Experience (Project)				
ENV H 598 (Degree Program Project/Portfolio, All Quarters)		3		
ENV H 599 (Field Studies, All Quarters)		3		
	Total Minimum Credits	52		

- 1. Two quarters of ENV H 580 are required for a total of 2 credits.
- 2. 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 culminating project.

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Sample Schedule

The schedule below includes <u>non-elective courses only</u>. 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 the Internship Manager and your Faculty Internship Adviser to			
identify poss	ible internships / Work with Internship Manager to develop professional skills (resumes, cover lett	ers,	
interviewing	, etc.) / Begin applying for internships		
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.	
	work Milestones: Continue to work on professional skills with the Internship Manager and your Fadoviser / Continue applying to internships (if needed) / Once you have accepted an internship, ident	•	

Faculty Project Adviser

Spring Quarter

HSERV 579 Structural Racism and Public Health 1 cr.

ENV H 580 Environmental and Occupational Health Seminar 1 cr.

Non-Coursework Milestones: Continue applying to internships (if needed) / Once you have accepted an internship, identify a Faculty Project Adviser / Work with your Faculty Project Adviser to identify at least one other faculty member to serve on your Project Committee / Complete a scope of work plan for your project and a draft project proposal.

Summer Quarter

Complete internship

Non-Coursework Milestones: Submit the final draft of your project proposal to your Project Committee for approval / Complete all requirements for ENV H 599

SECOND YEAR				
Autumn Quarter				
ENV H 598	Degree Program Project/Portfolio	3 cr.		
ENV H 599	Field Studies	3 cr.		

Non-Coursework Milestones: Complete all requirements for ENV H 598, including the written project report, an oral presentation of the project at a public meeting, and an oral examination conducted by your Project Committee

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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, Applied

- 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
- Identify a current, practical problem in environmental health sciences and collect, integrate and analyze relevant information to produce practical solutions.