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)		
ENV H 501 (Foundations of Environmental & Occupational Health, Autumn)		
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)	$2 \times 1 = 2^{2}$	
Area of Emphasis: Environmental Public Health		
ENV H 584 (Environmental Health Policy and Practice, Winter)	4	
Choose a minimum of 12 credits from the following:		
ENV H 506 (Disasters and Public Health, Autumn, 3 cr.)		
ENV H 509 (Microbiome and Environmental Health, Spring, 3 cr.)		
ENV H 518 (Understanding and Managing the Health Risks of Climate Change, Winter, 3 cr.)		
ENV H 521 (Effective Communication Strategies for Env. PH Professionals, Spring, 2 cr.)		
ENV H 536 (Health Impact Assessment, Spring, 2 cr.)		
ENV H 538 (Public Health and the Built Environment, Winter, 2 cr.)		
ENV H 539 (One Health: Human and Animal Health in a Changing Environment, Spring, 3 cr.)		
ENV H 540 (Food Safety and Health, Quarter TBD, 3 cr.)	12	
ENV H 541 (Ecology of Environmentally Transmitted Microbial Hazards, Winter, 3 cr.)	12	
ENV H 542 (Detection & Control of Env. Transmitted Microbial Haz., Spring, 3 cr.)		
ENV H 544 (Antibiotic Resistant Bacteria/Genes Impact on the Environment & PH, Autumn, 4 cr.)		
ENV H 545 (Water, Wastewater, and Health, Autumn, 4 cr.)		
ENV H 546 (Hazardous Waste and Public Health, Quarter TBD, 3 cr.)		
ENV H 547 (Environmental Change and Infectious Disease, Spring, 3 cr.)		
ENV H 548 (Community Air Pollution, Winter, 3 cr.)		
ENV H 565 (Geographic Information Systems (GIS) in Public Health, Autumn, 3 cr.)		
ENV H 577 (Risk Assessment for Environmental Health Hazards, Autumn, 4 cr.)		
Elective Courses ²	≥7	
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.

Sample Schedule

The schedule below includes non-elective courses only. Students work with their faculty adviser to identify additional elective 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-Course	work Milestones: Work 1-on-1 with the Internship Manager and your Faculty Internsh	ip Adviser to
dentify poss	ible internships / Work with Internship Manager to develop professional skills (resum	es, cover letters,
nterviewing	, 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.
ENV H 584	Environmental Health Policy and Practice	4 cr.
	Additional course(s) from list of recommended courses (see table below)	Var.
Faculty Proje	Spring Quarter	
HSERV 579		1 cr.
	Structural Racism and Public Health	<u>1 cr.</u>
	Structural Racism and Public Health Environmental and Occupational Health Seminar	1 cr. 1 cr. Var.
ENV H 580	Structural Racism and Public Health Environmental and Occupational Health Seminar Additional course(s) from list of recommended courses (see table below)	1 cr. Var.
ENV H 580 Non-Course	Structural Racism and Public Health Environmental and Occupational Health Seminar Additional course(s) from list of recommended courses (see table below) work Milestones: Continue applying to internships (if needed) / Once you have accept	1 cr. Var. ted an internship,
ENV H 580 Non-Course identify a Fa	Structural Racism and Public Health Environmental and Occupational Health Seminar Additional course(s) from list of recommended courses (see table below)	1 cr. Var. ted an internship, other faculty
ENV H 580 Non-Course identify a Fa member to s	Structural Racism and Public Health Environmental and Occupational Health Seminar Additional course(s) from list of recommended courses (see table below) work Milestones: Continue applying to internships (if needed) / Once you have accept culty Project Adviser / Work with your Faculty Project Adviser to identify at least one of	1 cr. Var. ted an internship, other faculty
ENV H 580 Non-Course identify a Fa member to s	Structural Racism and Public Health Environmental and Occupational Health Seminar Additional course(s) from list of recommended courses (see table below) work Milestones: Continue applying to internships (if needed) / Once you have accept culty Project Adviser / Work with your Faculty Project Adviser to identify at least one of	1 cr. Var. ted an internship, other faculty
ENV H 580 Non-Course identify a Fa member to s	Structural Racism and Public Health Environmental and Occupational Health Seminar Additional course(s) from list of recommended courses (see table below) work Milestones: Continue applying to internships (if needed) / Once you have accept culty Project Adviser / Work with your Faculty Project Adviser to identify at least one of erve on your Project Committee / Complete a scope of work plan for your project and	1 cr. Var. ted an internship, other faculty
ENV H 580 Non-Course identify a Fa member to s proposal.	Structural Racism and Public Health Environmental and Occupational Health Seminar Additional course(s) from list of recommended courses (see table below) work Milestones: Continue applying to internships (if needed) / Once you have accept culty Project Adviser / Work with your Faculty Project Adviser to identify at least one of erve on your Project Committee / Complete a scope of work plan for your project and Summer Quarter	1 cr. Var. ted an internship, other faculty I a draft project
ENV H 580 Non-Course identify a Fa member to s proposal. Non-Course	Structural Racism and Public Health Environmental and Occupational Health Seminar Additional course(s) from list of recommended courses (see table below) work Milestones: Continue applying to internships (if needed) / Once you have accept culty Project Adviser / Work with your Faculty Project Adviser to identify at least one of serve on your Project Committee / Complete a scope of work plan for your project and Summer Quarter Complete internship	1 cr. Var. ted an internship, other faculty I a draft project
identify a Fa member to s proposal. Non-Course	Structural Racism and Public Health Environmental and Occupational Health Seminar Additional course(s) from list of recommended courses (see table below) work Milestones: Continue applying to internships (if needed) / Once you have accept culty Project Adviser / Work with your Faculty Project Adviser to identify at least one of serve on your Project Committee / Complete a scope of work plan for your project and Summer Quarter Complete internship work Milestones: Submit the final draft of your project proposal to your Project Commit	1 cr. Var. ted an internship, other faculty I a draft project

ENV H 598	Degree Program Project/Portfolio
ENV H 599	Field Studies

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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



3 cr. 3 cr.

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

DEOHS – Area of Emphasis: Environmental Public Health

- Describe the sources, pathways, and routes of exposure of environmental hazards
- Apply measurement and/or modeling methods to environmental hazards
- Recognize and explain individual and societal opportunities to prevent, mitigate, and/or adapt to environmental hazards

