Required Coursework

	Credits		
MPH Common Core			
PHI 511 (Foundations of Public Health, Autumn)	3		
Choose one of the following:			
PHI 512 (Analytical Skills for Public Health I, Autumn, 7 cr.)			
OR	7 or 8		
BIOST 511 (Medical Biometry I, Autumn, 4 cr.) AND			
EPI 512 (Epidemiologic Methods I, Autumn, 4 cr.)			
PHI 513 (Analytical Skills for Public Health II, Winter)	3		
PHI 514 (Determinants of Health, Winter)	3		
PHI 515 (Implementing Public Health Interventions, Spring)	4		
PHI 516 (Public Health Practice, Spring)	3		
ENV H 599 (Field Studies/Practicum)	4		
DEOHS Common Core			
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 (Env. & Occupational Health Sciences Seminar, Autumn/Winter/Spring)	1		
Degree Specific Course Requirements			
BIOST 512 (Medical Biometry II, Winter)			
Choose one of the following:	4		
BIOST 513 (Medical Biometry III, Spring)			
ENV H 596 (Current Issues in Environmental and Occupational Medicine, Summer) ¹			
Choose one of the following:			
EPI 513 (<i>Epidemiological Methods II</i> , Winter – preferred option for thesis students)			
ENV H 597 (Case Studies in Env. and Occupational Health, Autumn/Winter/Spring) ²			
ENV H 550 (Occupational and Environmental Disease, Spring)			
ENV H 564 (Recognition of Health and Safety Problems in Industry, Autumn)			
ENV H 596 (Current Issues in Environmental and Occupational Medicine, Spring)			
ENV H 597 (Case Studies in Environmental and Occupational Health, Autumn/Winter/Spring)			
Elective Courses ³	0-1		
Culminating Experience			
For students who choose to complete a RESEARCH THESIS			
ENV H 583 (Thesis Proposal Preparation, Spring)			
ENV H 700 (Master's Thesis, All Quarters)			
For students who choose to complete a CAPSTONE PROJECT			
ENV H 598 (Degree Program Project/Portfolio, All Quarters)			
Total Minimum Credits	68		

- 1. ENV H 596 is offered as a 2-credit course in spring quarter and two, 2-credit modules in summer quarter. Students choosing this option take both the spring and summer offerings for a total of 6 credits.
- 2. ENV H 597 is a 1-credit class. Students choosing this option take four quarters in addition to the required two quarters for a total of 6 quarters/credits.
- 3. Students work with their faculty adviser to identify an additional course 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 either a research thesis or a capstone project.

Sample Schedule (Thesis Option)

The schedule below includes <u>non-elective courses only</u>. 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.).

PHI 512 Analytical Skills for Public Health I (7 cr.) OR BIOST 511 Medical Biometry I (4 cr.) ENV H 503 Adverse Health Effects of Environmental and Occupational Toxicants 4 cr. ENV H 504 Recognition of Health and Safety Problems in Industry 2 cr. ENV H 507 Case Studies in Environmental and Occupational Health 1 cr. ENV H 508 Environmental and Occupational Health 1 cr. ENV H 509 Case Studies in Environmental and Occupational Health 1 cr. ENV H 509 Case Studies in Environmental and Occupational Health 1 cr. ENV H 509 Case Studies in Environmental and Occupational Health 1 cr. ENV H 500 Environmental and Occupational Health 1 cr. ENV H 510 Analytical Skills for Public Health II 3 cr. PHI 513 Analytical Skills for Public Health II 3 cr. ENV H 504 Assessing & Managing Risks from Human Exposure to Env. Contaminants 4 cr. ENV H 505 Env F M H 507 (4 additional quarters) or EPI 513 (winter, year 1) 4 cr. ENV Non-Coursework Milestones: Continue working with your Faculty Mentor to identify possible thesis and practicum (clinic) projects / Identify a Thesis Adviser by the end of the quarter ENV H 515 Implementing Public Health Interventions 4 cr. PHI 516 Public Health Practice 3 cr. ENV H 550 Occupational and Environmental Disease 4 cr. Choose either ENV H 596 (summer) or BIOST 513 (spring) 4 cr. Choose either ENV H 596 (summer) or BIOST 513 (spring) 4 cr. Choose either ENV H 597 (4 additional quarters) or EPI 513 (winter) 4 cr. Choose either ENV H 596 (summer) or BIOST 513 (spring) 4 cr. Choose either ENV H 596 (summer) or BIOST 513 (spring) 4 cr.			
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Choose either ENV H 597 (4 additional quarters) or EPI 513 (winter, year 1) 4 cr. Non-Coursework Milestones: Continue working with your Faculty Mentor to identify possible thesis and practicum (clinic) projects / Identify a Thesis Adviser by the end of the quarter Spring Quarter PHI 515 Implementing Public Health Interventions 4 cr. PHI 516 Public Health Practice 3 cr. ENV H 550 Occupational and Environmental Disease 4 cr. Choose either ENV H 596 (summer) or BIOST 513 (spring) 4 cr. Choose either ENV H 597 (4 additional quarters) or EPI 513 (winter) 4 cr. ENV H 583 Thesis Proposal Preparation 1 cr. ENV H 700 Master's Thesis 1 cr.	BIOST 512	Medical Biometry II	4 cr.
Non-Coursework Milestones: Continue working with your Faculty Mentor to identify possible thesis and practicum (clinic) projects / Identify a Thesis Adviser by the end of the quarter Spring Quarter PHI 515 Implementing Public Health Interventions 4 cr. PHI 516 Public Health Practice 3 cr. ENV H 550 Occupational and Environmental Disease 4 cr. Choose either ENV H 596 (summer) or BIOST 513 (spring) 4 cr. Choose either ENV H 597 (4 additional quarters) or EPI 513 (winter) 4 cr. ENV H 583 Thesis Proposal Preparation 1 cr. ENV H 700 Master's Thesis 1	ENV H 502	Assessing & Managing Risks from Human Exposure to Env. Contaminants	4 cr.
Spring Quarter PHI 515 Implementing Public Health Interventions 4 cr. PHI 516 Public Health Practice 3 cr. ENV H 550 Occupational and Environmental Disease 4 cr. Choose either ENV H 596 (summer) or BIOST 513 (spring) 4 cr. Choose either ENV H 597 (4 additional quarters) or EPI 513 (winter) 4 cr. ENV H 583 Thesis Proposal Preparation 1 cr. ENV H 700 Master's Thesis 1		Choose either ENV H 597 (4 additional quarters) or EPI 513 (winter, year 1)	4 cr.
Spring Quarter PHI 515 Implementing Public Health Interventions 4 cr. PHI 516 Public Health Practice 3 cr. ENV H 550 Occupational and Environmental Disease 4 cr. Choose either ENV H 596 (summer) or BIOST 513 (spring) 4 cr. Choose either ENV H 597 (4 additional quarters) or EPI 513 (winter) 4 cr. ENV H 583 Thesis Proposal Preparation 1 cr. ENV H 700 Master's Thesis 1 cr.	Non-Coursew	rork Milestones: Continue working with your Faculty Mentor to identify possible thesis and	practicum
PHI 515 Implementing Public Health Interventions 4 cr. PHI 516 Public Health Practice 3 cr. ENV H 550 Occupational and Environmental Disease 4 cr. Choose either ENV H 596 (summer) or BIOST 513 (spring) 4 cr. Choose either ENV H 597 (4 additional quarters) or EPI 513 (winter) 4 cr. ENV H 583 Thesis Proposal Preparation 1 cr. ENV H 700 Master's Thesis 1 cr.	(clinic) project	ts / Identify a Thesis Adviser by the end of the quarter	
PHI 516 Public Health Practice 3 cr. ENV H 550 Occupational and Environmental Disease 4 cr. Choose either ENV H 596 (summer) or BIOST 513 (spring) 4 cr. Choose either ENV H 597 (4 additional quarters) or EPI 513 (winter) 4 cr. ENV H 583 Thesis Proposal Preparation 1 cr. ENV H 700 Master's Thesis 1 cr.		Spring Quarter	
ENV H 550 Occupational and Environmental Disease 4 cr. Choose either ENV H 596 (summer) or BIOST 513 (spring) 4 cr. Choose either ENV H 597 (4 additional quarters) or EPI 513 (winter) 4 cr. ENV H 583 Thesis Proposal Preparation 1 cr. ENV H 700 Master's Thesis 1 cr.	PHI 515	Implementing Public Health Interventions	4 cr.
Choose either ENV H 596 (summer) or BIOST 513 (spring) 4 cr. Choose either ENV H 597 (4 additional quarters) or EPI 513 (winter) 4 cr. ENV H 583 Thesis Proposal Preparation 1 cr. ENV H 700 Master's Thesis 1 cr.	PHI 516	Public Health Practice	3 cr.
Choose either ENV H 597 (4 additional quarters) or EPI 513 (winter) 4 cr. ENV H 583 Thesis Proposal Preparation 1 cr. ENV H 700 Master's Thesis 1 cr.	ENV H 550	Occupational and Environmental Disease	4 cr.
ENV H 583 Thesis Proposal Preparation 1 cr. ENV H 700 Master's Thesis 1 cr.		Choose either ENV H 596 (summer) or BIOST 513 (spring)	4 cr.
ENV H 700 Master's Thesis 1 cr.		Choose either ENV H 597 (4 additional quarters) or EPI 513 (winter)	4 cr.
	ENV H 583	Thesis Proposal Preparation	1 cr.
Non-Coursework Milestones: Write thesis proposal and form Thesis Committee / Confirm practicum (clinic) site and	ENV H 700	Master's Thesis	1 cr.
	Non-Coursew	rork Milestones: Write thesis proposal and form Thesis Committee / Confirm practicum (cli	nic) site and
complete associated learning contract	complete asso	ociated learning contract	
Summer Quarter		Summer Quarter	
ENV H 596 Current Issues in Environmental and Occupational Medicine 2 cr.	ENV H 596	Current Issues in Environmental and Occupational Medicine	2 cr.
Non-Coursework Milestones: Complete practicum (≥160 hours) / Begin thesis project as outlined in thesis proposal	Non-Coursew	ork Milestones: Complete practicum (≥160 hours) / Begin thesis project as outlined in thes	is proposal

SECOND YEAR				
Autumn Quarter				
ENV H 599	Field Studies/Practicum	4 cr.		
ENV H 700	Master's Thesis	3 cr.		
	Choose either ENV H 597 (4 additional quarters) or EPI 513 (winter)	4 cr.		
work on thes		,, e.c., , continue		
ENV H 700	Master's Thesis	2 cr.		
	Choose either ENV H 597 (4 additional quarters) or EPI 513 (winter)	4 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 / Present practicum at MPH Symposium

Degree Competencies

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

School of Public Health -- All MPH Students

Profession & Science of Public Health:

- 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

Factors Related to Human Health:

- 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)

Evidence-based Approaches to Public Health:

- Apply epidemiological methods to the breadth of settings and situations in public health practice
- Select quantitative and qualitative data collection methods appropriate for a given public health context
- Analyze quantitative and qualitative data using biostatistics, informatics, computer-based programming and software, as appropriate
- Interpret results of data analysis for public health research, policy or practice

Public Health & Health Care Systems:

- Compare the organization, structure and function of health care, public health and regulatory systems across national and international settings
- Discuss the means by which structural bias, social inequities and racism undermine health and create challenges to achieving health equity at organizational, community and societal levels

Planning & Management to Promote Health:

- Assess population needs, assets and capacities that affect communities' health
- Apply awareness of cultural values and practices to the design or implementation of public health policies or programs
- Design a population-based policy, program, project or intervention
- Explain basic principles and tools of budget and resource management
- Select methods to evaluate public health programs

Policy in Public Health:

- Discuss multiple dimensions of the policy-making process, including the roles of ethics and evidence
- Propose strategies to identify stakeholders and build coalitions and partnerships for influencing public health outcomes
- Advocate for political, social or economic policies and programs that will improve health in diverse populations
- Evaluate policies for their impact on public health and health equity



Leadership:

- Apply principles of leadership, governance and management, which include creating a vision, empowering others, fostering collaboration and guiding decision making
- Apply negotiation and mediation skills to address organizational or community challenges

Communication:

- Select communication strategies for different audiences and sectors
- Communicate audience-appropriate public health content, both in writing and through oral presentation
- Describe the importance of cultural competence in communicating public health content

Interprofessional Practice:

Perform effectively on interprofessional teams

Systems Thinking:

• Apply systems thinking tools to a public health issue

SPH - All Student Competency

• Recognize the means by which social inequities and racism, generated by power and privilege, undermine health

DEOHS – All Graduate Student Competencies

- 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
- For students choosing the THESIS option only: Formulate hypotheses and design experiments to test such hypotheses aimed at advancing knowledge in environment and health sciences (for students choosing the thesis option only)
- For student choosing the CAPSTONE option only: Identify a current, practical problem in environmental health sciences and collect, integrate and analyze relevant information to produce practical solutions.

DEOHS – MPH in Occupational and Environmental Medicine

- Evaluate injuries and illnesses that are occupationally or environmentally related within the occupational and environmental health regulatory environment and systems
- Apply evidence-based approaches to managing occupational and environmental injuries and diseases
- Recognize, evaluate, and treat human exposures to physical, chemical, or biological hazards at work or in the general environment
- Integrate aspects of surveillance and principles of exposure assessment into primary and secondary prevention of occupational and environmental disease
- Describe occupational health disparities and formulate a plan to mitigate individual and organizational factors in the workplace in order to optimize the health of the worker.