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	
Area of Emphasis: Environmental To	xicology		
ENV H 515 (Organ System Toxicology, Winter)		3	
ENV H 516 (Toxic Agents: Effects and Mechanisms, Spring)		3	
ENV H 577 (Risk Assessment for Environmental Health, Autumn)		4	
4 credits from any combination of:			
ENV H 591 (Current Topics in Toxicology, Winter, 2 cr.)		4	
ENV H 593 (Current Topics in Risk Assessment, Autumn/Spring, 2 cr.)			
Elective Courses ²		≥9	
Culminating Experience (Proje	ct)		
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 <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.
NV H 501	Foundations of Environmental & Occupational Health	4 cr
NV H 503	Adverse Health Effects of Environmental and Occupational Toxicants	4 cr
lon-Course	work Milestones: Work 1-on-1 with the Internship Manager and your Faculty Inter	nship Adviser to
dentify poss	ible internships / Work with Internship Manager to develop professional skills (resu	umes, cover letters,
nterviewing	, etc.) / Begin applying for internships	
	Winter Quarter	
NV H 502	Assessing & Managing Risks from Human Exposure to Env. Contaminants	4 cr.
NV H 515	Organ System Toxicology	3 cr.
NV H 580	Environmental and Occupational Health Seminar	1 cr.
NV H 591	Current Topics in Toxicology	2 cr.
	Spring Quarter	
	Spring Quarter	
ISERV 579	Structural Racism and Public Health	1 cr.
NV H 516	Toxic Agents: Effects and Mechanisms	3 cr.
NV H 580	Environmental and Occupational Health Seminar	1 cr.
NV H 593	Current Topics in Risk Assessment	2 cr.
	work Milestones: Continue applying to internships (if needed) / Once you have acc	
•	culty Project Adviser / Work with your Faculty Project Adviser to identify at least or erve on your Project Committee / Complete a scope of work plan for your project a	•
proposal.		
noposai.		and a draft project
		and a draft project
	Summer Quarter	and a draft project
Non-Course	Summer Quarter Complete internship	
	Summer Quarter	
	Summer Quarter Complete internship work Milestones: Submit the final draft of your project proposal to your Project Co	
	Summer Quarter Complete internship work Milestones: Submit the final draft of your project proposal to your Project Co requirements for ENV H 599	
Complete all	Summer Quarter Complete internship work Milestones: Submit the final draft of your project proposal to your Project Co requirements for ENV H 599 SECOND YEAR	
	Summer Quarter Complete internship work Milestones: Submit the final draft of your project proposal to your Project Co requirements for ENV H 599 SECOND YEAR Autumn Quarter	ommittee for approval

ENV H 599 Field Studies

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.

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 Toxicology

- Define the major classes of toxicants present in the environment and the workplace and describe their sources, pathways, and routes of exposure
- Describe and analyze how toxicants interact with biological systems and the mechanisms by which they elicit adverse effects in humans and other organisms
- Explain the core principles of research ethics and apply these principles to specific research projects
- Discuss regulatory authorities responsible for assessing toxic hazards
- Describe relevant toxicology-related health and safety regulations