



Core Course: Environmental Health

CPHN 539 (SoN, OHSU), H 512 (OSU), PHE 580 (PSU), PHPM 518 (SoM, OHSU)

Course Description:

This course is designed to introduce graduate students in the Oregon MPH Program to basic concepts and issues in environmental and occupational health. Environmental and occupational hazards that affect human health are examined in the context of current social, political, and regulatory pressures. Topics include environmental and emerging disease, environmental toxicology, risk assessment, occupational health, food protection, drinking water safety and waste water treatment, solid and hazardous waste disposal, indoor and outdoor air pollution, radiation, and pests and pesticides. Global environmental health issues are included as time permits.

Credits: 3 credits

COMPETENCY TABLE

COMPETENCY	RELATED COMPONENTS	LEARNING ACTIVITIES	COMPETENCY DEMONSTRATIONS
1. Analyze environmental and occupational impacts on the health of selected populations and communities.	1. Identify and study the major domains of environmental and occupational health. 2. Find and use reliable sources of information. 3. Search the professional and peer review literature. 4. Describe characteristics of environmentally and occupationally vulnerable populations.	Menu of Options Required readings Viewing films Guest speakers Websites and internet searches Ungraded assignments Class discussions Self-check quizzes Threaded discussions online Study questions for discussion or group work	Menu of Options Classroom or community presentations Poster presentation Paper (community environmental health assessment, research review) Environmental Exposure History Quizzes Final Examination
2. Assess environmental and occupational exposure risks for selected individuals or	1. Identify and characterize selected exposure risks.	Menu of Options Required reading Literature search	Menu of Options Environmental Exposure History

COMPETENCY	RELATED COMPONENTS	LEARNING ACTIVITIES	COMPETENCY DEMONSTRATIONS
populations.	2. Characterize susceptible populations. 3. Describe and use exposure assessment tools for individuals, populations, or communities. 4. Describe environmental pathways of exposure.	Use existing assessment tools Develop a survey Guest speakers Class discussions Debates to explore opposing points of view & ethical issues Threaded discussions online Study questions for discussion or group work Self-check quizzes	Paper (community environmental health assessment, research review) Poster presentation Classroom presentation Quizzes Final Examination
3. Explain environmental health problems in a community.	1. Identify environmental health issues in a defined geographic community. 2. Use secondary data to describe the environmental problem(s). 3. Identify population exposures to components of the environment. 4. Describe community stakeholders involved in the problem. 5. Articulate the environmental health problems of the community. 6. Articulate ethical issues & impacts on environmental health in the community.	<p style="text-align: center;">Menu of Options</p> Required readings Collect pertinent community information Interview community stakeholders Computer searches Review community records Guest speakers Class discussions Threaded discussions online Study questions for discussion or group work Self-check quizzes	<p style="text-align: center;">Menu of Options</p> Classroom or community presentations Poster presentation Paper (community environmental health assessment, research review) Environmental Exposure History Quizzes Final Examination

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<p>4. Communicate prevention and control strategies used in environmental and occupational health.</p>	<ol style="list-style-type: none"> 1. Identify and study established environmental and occupational health prevention and control strategies. 2. Describe prevention and control strategies as they relate to specific environmental health issues and populations at risk. 3. Develop recommendations for interventions. 4. Describe legal challenges to regulations and scientific data. 	<p style="text-align: center;">Menu of Options</p> <p>Required readings Guest speakers Websites and internet searches Ungraded assignments Class discussions Self-check quizzes Threaded discussions online Study questions for discussion or group work Case studies</p>	<p style="text-align: center;">Menu of Options</p> <p>Classroom or community presentations Poster presentation Paper (community environmental health assessment, research review) Environmental Exposure History Quizzes Final Examination</p>
<p>5. Analyze social, cultural, political and regulatory pressures that affect solutions for environmental and occupational health issues.</p>	<ol style="list-style-type: none"> 1. Interpret major laws and regulations. 2. Explain the interrelationships of social, cultural, political and regulatory pressures in environmental and occupational health. 3. Explain issues of environmental justice, including selected ethical, social and cultural influences. 4. Identify selected global impacts in environmental and occupational health. 	<p style="text-align: center;">Menu of Options</p> <p>Required readings Viewing films Guest speakers Websites and internet searches Ungraded assignments Class discussions Self-check quizzes Threaded discussions online Study questions for discussion or group work Study current events Case studies</p>	<p style="text-align: center;">Menu of Options</p> <p>Classroom or community presentations Quizzes Final Examination</p>