

Environmental and Occupational Health – Core Competencies

1. Assess environmental and occupational exposures. Students will be able to assess human exposures to environmental and occupational hazards for the purposes of evaluating human health hazards, conducting epidemiological research, and preventing and controlling hazards.
2. Prevent and control environmental and occupational hazards. Students will be able to recommend appropriate interventions - such as engineering controls, behavior change, or material substitution - for reducing human exposures to environmental and occupational hazards
3. Identify the adverse effects of chemical, biological, and physical exposures on human health. Students will be able to describe the structure and function of human organ systems and identify environmental and occupational agents that disrupt these systems to cause disease and injury. Students will be able to identify the main mechanisms by which environmental and occupational agents gain access to and adversely affect human health, as well as factors which affect susceptibility to such adverse effects.
4. Engage in public health communication and risk communication activities. Students will be able to communicate clearly and effectively in professional and community settings on public health issues and on environmental and occupational health hazards.
5. Identify ethical issues in environmental and occupational health policy and practice. Students will be able to discuss how scientific principles and societal values such as equity and environmental justice influence decision-making about environmental and occupational problems in research, public health practice, policy, and management contexts.