



College of Public Health

Doctor of Philosophy Program Competencies

Environmental Health, Occupational Health and Toxicology

Upon graduation, a student with a Doctor of Philosophy in Environmental and Occupational Health and Toxicology should be able to.....

Environmental and Occupational Health Track

- EHOHTPHD1* Formulate hypotheses and design experiments to test such hypotheses, aimed at advancing the body of knowledge surrounding environmental, occupational, and toxicology issues.
- EHOHTPHD2* Prepare, orally and in writing, qualitative and quantitative information on environmental, occupational, and toxicology topics, to academic, professional, and public audiences.
- EHOHTPHD3* Foster collaboration and cooperation among various stakeholders, interest groups, and populations to raise awareness and achieve environmental, occupational, and toxicology objectives and benefits.
- EOHPHD1 Design and assess intervention strategies and policies aiming to reduce injury or illness related to occupation or the environment.
- EOHPHD2 Identify, assess, control, and prevent environmental and occupational hazards that are significant risks to human health and safety.
- EOHPHD3 Apply research methods that utilize established classifications of exposures, health outcomes, and biological effects associated with these exposures.
- EOHPHD4 Design and execute a field study of occupational and environmental health hazards.

*The Environmental and Occupational Health and Toxicology concentrations share 3 competencies.



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Toxicology Track

- EHOHTPHD1* Formulate hypotheses and design experiments to test such hypotheses, aimed at advancing the body of knowledge surrounding environmental, occupational, and toxicology issues.
- EHOHTPHD2* Prepare, orally and in writing, qualitative and quantitative information on environmental, occupational, and toxicology topics, to academic, professional, and public audiences.
- EHOHTPHD3* Foster collaboration and cooperation among various stakeholders, interest groups, and populations to raise awareness and achieve environmental, occupational, and toxicology objectives and benefits.
- TOXPHD1 Determine the relationship between chemical exposure and toxic response through experimental design and risk assessment.
- TOXPHD2 Determine the severity of toxic response to amount of chemical exposure by implementing the principles of dose-response and absorption, distribution, metabolism and excretion.
- TOXPHD3 Correlate target organ responses with specific toxicant exposures.
- TOXPHD4 Manage risk assessment protocols to predict toxic responses to environmental and workplace exposures.
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