ENVIRONMENTAL HEALTH SCIENCES
Competencies by Degree and Concentration

1. Public Health Practice Degrees

A. MPH: Environmental & Occupational Health

MPH-EOH 1: Explain environmental and occupational health theories and apply them to public health problems.
MPH-EOH 2: Create risk assessment approaches based on target populations.
MPH-EOH 3: Apply environmental justice principles in community and occupational settings.
MPH-EOH 4: Demonstrate an understanding of the regulatory policies and agencies that influence environmental and occupational health issues.
MPH-EOH 5: Evaluate the literature concerning environmental factors impacting human health.

B. MPH: Industrial Hygiene

MPH-ENH-IHY 1: Demonstrate knowledge on the scientific principles and fundamentals of industrial hygiene.
MPH-ENH-IHY 2: Use sampling and analytical methods to conduct occupational exposure assessment
MPH-ENH-IHY 3: Demonstrate the fundamentals in controlling occupational exposure hazards.
MPH-ENH-IHY 4: Apply fundamental concepts of industrial hygiene theory to real life practical cases.
MPH-ENH-IHY 5: Explain knowledge on fundamental concepts of occupational safety and health.
MPH-ENH-IHY 6: Apply the basic regulations and standards of industrial hygiene and occupational health and safety to real field situations.

2. Academic Public Health Degrees

A. MSPH Environmental Health & Toxicology

MSPH-ENH 1: Demonstrate the application of theories in environmental science including industrial hygiene and occupational safety in an area of specialization
MSPH-ENH 2: Develop a plan for using appropriate sampling and analysis method in environmental health and toxicology.

Revised September 2018
MSPH-ENH 3: Demonstrate the ability to conduct environmental health research under the guidance of an environmental health science mentor.
MSPH-ENH 4: Write an environmental health sciences manuscript reporting appropriate research principles and methods in the design, conduct, analysis, and interpretation.
MSPH-ENH 5: Present environmental health science study findings to environmental health sciences faculty in a public forum.
MSPH – ENH 6: Explain environmental and occupational health theories and apply them to public health problems.

B. General ENH PhD:

PHD-ENH 1: Demonstrate in-depth knowledge and capacity to apply environmental health concepts.
PHD-ENH 2: Conduct a comprehensive review of literature and identify gaps in environmental and occupational health.
PHD-ENH 3: Develop an environmental or occupational health dissertation research proposal with a detailed plan for the method and analysis.
PHD-ENH 4: Communicate, verbally and in written form, to the scientific community stakeholder and the public scientific information on environmental and/or occupational health.
PHD-ENH 5: Develop advanced knowledge on environmental and occupational exposure and the effect on the human body.
PHD-ENH 6: Understand the main issues in the environment regarding natural and man-made disasters.
PHD-ENH 7: Specify approaches for assessing, preventing, and controlling environmental hazards that pose risks to human health and safety.
PHD-ENH 8: Present and defend individual dissertation in a public forum.