

# ENVIRONMENTAL HEALTH SCIENCES

## 2023-24

### Competencies by Degree and Concentration

#### 1. Public Health Practice Degrees

##### A. MPH: Environmental & Occupational Health

**MPH-ENH 1:** Explain environmental health theories and apply them to public health problems.

**MPH- ENH 2:** Apply risk assessment approaches based on target populations.

**MPH- ENH 3:** Apply environmental justice principles to community settings.

**MPH- ENH 4:** Describe the regulatory policies and agencies that influence environmental health issues.

**MPH- ENH 5:** Evaluate the literature concerning environmental factors impacting human health.

#### 2. Academic Public Health Degrees

##### A. MSPH Environmental & Occupational Health Sciences

**MSPH – ENH 1:** Review the theories of environmental and occupational health sciences for research.

**MSPH-ENH 2:** Perform analytical methods that are used for determining how air and water pollutants impact human health and the environment.

**MSPH-ENH 3:** Design a study, experiment, or apply analytical techniques using equipment and/or software in an area of specialization in environmental or occupational health sciences.

##### B. MSPH Industrial Hygiene

**MSPH-ENH-IHY 1:** Demonstrate knowledge on the scientific principles and fundamentals of industrial hygiene.

**MSPH-ENH-IHY 2:** Use sampling and analytical methods to conduct occupational exposure assessment.

**MSPH-ENH-IHY 3:** Demonstrate the fundamentals in controlling occupational exposure hazards.

**MSPH-ENH-IHY 4:** Apply fundamental concepts of industrial hygiene theory to real life practical cases.

**MSPH-ENH-IHY 5:** Apply the basic regulations and standards of industrial hygiene to real field situations.

### **C. General EHS PhD:**

**EHS PhD 1:** Describe the major environmental and occupational hazards and risk factors impacting human health.

**EHS PhD 2:** Communicate, verbally and in written form, to the scientific community, stakeholder, and the public, scientific information on environmental and/or occupational health.

**EHS PhD 3:** Conduct a comprehensive review of literature and identify gaps in environmental and occupational health.

**EHS Ph 4:** Devise an environmental or occupational health dissertation research proposal with a detailed plan for developing the method and analysis.

**EHS PhD 5:** Present and defend dissertation research in a public forum.