ENVIRONMENTAL HEALTH SCIENCE DEGREE PROGRAM COMPETENCIES (MPH, MSPH, PHD)

ENVIRONMENTAL HEALTH SCIENCE GENERAL MPH/MSPH COMPETENCIES:

MPH/MSPH-ENH 1: Specify approaches for assessing environmental hazards.

MPH/MSPH-ENH 2: Communicate scientific information in public and professional venues.

MASTER OF PUBLIC HEALTH COMPETENCIES

MPH ENVIRONMENTAL & OCCUPATIONAL HEALTH CONCENTRATION:

All General ENH MPH Competencies, plus:

MPH-EOH 1: Describe critical factors of exposure assessment studies.

MPH-EOH 2: Explain how environmental factors impact human health.

MPH-EOH 3: Explain how environmental justice impacts health.

MPH-EOH 4: Demonstrate practical knowledge of environmental regulations.

MPH-EOH 5: Employ risk assessments approaches.

MPH-EOH 6: Describe regulatory programs and agencies that influence environmental and occupational health issues.

MPH INDUSTRIAL HYGIENE CONCENTRATION:

All General ENH MPH Competencies, plus:

MPH-IHY 1: Develop knowledge on the scientific principles and fundamentals of industrial hygiene.

MPH-IHY 2: Learn the main sampling and analytical methods used for occupational exposure assessment.

MPH-IHY 3: Learn the fundamentals in controlling occupational exposure hazards.

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

MPH-IHY 5: Develop knowledge on fundamental concepts of occupational safety and health.

MPH-IHY 6: Learn the basic regulations and standards applied to industrial hygiene and occupational health and safety.
**MPH ACCELERATED INDUSTRIAL HYGIENE CONCENTRATION:**

All General ENH MPH Competencies, plus

**MPH-IHY 1:** Develop knowledge on the scientific principles and fundamentals of industrial hygiene.

**MPH-IHY 2:** Learn the main sampling and analytical methods used for occupational exposure assessment.

**MPH-IHY 3:** Learn the fundamentals in controlling occupational exposure hazards.

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

**MPH-IHY 5:** Develop knowledge on fundamental concepts of occupational safety and health.

**MPH-IHY 6:** Learn the basic regulations and standards applied to industrial hygiene and occupational health and safety.

**MPH-IHY 7:** Perform supervised research appropriate industrial hygiene research.

---

**MASTER OF SCIENCE IN PUBLIC HEALTH COMPETENCIES**

**MSPH ENVIRONMENTAL HEALTH & TOXICOLOGY:**

**MPH/MSPH-ENH 1:** Specify approaches for assessing environmental hazards.

**MPH/MSPH-ENH 2:** Communicate scientific information in public and professional venues.

**MSPH-ENH 3:** Conduct a literature review on a environmental health and toxicology topic.

**MSPH-ENH 4:** Write a research proposal appropriate for environmental health and toxicology.

**MPSH-ENH 5:** Perform supervised research appropriate for environmental health and toxicology research.

**MSPH-ENH 6:** Develop an original or customized sampling or analysis methods in environmental health and toxicology.

**MSPH-ENH 7:** Present and defend your research thesis in a public forum.

---
DOCTOR OF PHILOSOPHY COMPETENCIES

GENERAL ENH PHD COMPETENCIES:

ENH-PhD 1: Demonstrate in-depth knowledge and capacity to apply environmental health concepts.

ENH-PhD 2: Conduct a comprehensive review of literature and identify gaps in environmental and occupational health.

ENH-PhD 3: Develop an environmental or occupational health dissertation research proposal with detailed plan for developing the method and analyses.

ENH-PhD 4: Communicate, verbally and in written form, to the scientific community stakeholder and the public scientific information on environmental and/or occupational health.

ENH-PhD 5: Develop advanced knowledge on environmental and occupational exposure and the effect on the human body.

ENH-PhD 6: Understand the main issues in the environment regarding natural and man-made disasters.

ENH-PhD 7: Specify approaches for assessing, preventing, and controlling environmental hazards that pose risks to human health and safety.

ENH-PhD 8: Present and defend your dissertation in a public forum.