An MS in occupational and environmental health (OEH) is offered with optional subprograms in agricultural safety and health and industrial hygiene.

Learning Outcomes

General Outcomes

Students will be able to:

- describe major environmental hazards that adversely affect human health;
- demonstrate the use of regulatory guidelines that seek to control occupational health and injury issues;
- apply epidemiological principles used to assess associations between exposure to occupational health and injury hazards on health outcomes;
- use computer software and statistical methods to test a hypothesis; and
- use intervention and evaluation theory to prevent occupational health and injury hazards.

Agricultural Safety and Health Subprogram Outcomes

Students will be able to:

- describe the basic concepts of agricultural safety and health;
- summarize epidemiological principles that can be used to determine health outcomes associated with exposure to occupational hazards;
- explain appropriate research design and methodology related to the field of agricultural safety and health;
- communicate agricultural safety and health concepts both orally and in writing;
- interpret the significance of occupationally derived data relative to an exposure or health outcome;
- analyze agricultural safety and health intervention programs; and
- design and implement a research project relative to peer-reviewed literature in agricultural safety and health.

Industrial Hygiene Subprogram Outcomes

Students will be able to:

- recommend and evaluate controls to reduce or eliminate hazards with regard to traditional hierarchy considerations;
- understand applicable business, managerial, and leadership practices with an emphasis on program and project management;
- communicate effectively and appropriately to advocate for continuous improvement in worker health and safety to pertinent audiences, including the workforce, management, the public, and professional peers;
- interpret and apply applicable and emerging regulations, consensus standards, and best practices affecting occupational and environmental health;
- demonstrate an understanding of the professional code of ethics; and
- understand the value of and path to attain professional certification in industrial hygiene and allied fields.