

M.S. in Occupational Safety Management

Program-Level Student Learning Outcomes

Daytona Beach

Students will:

- Conduct accident investigations and analyses.
- Apply adult learning theory to safety training methodology.
- Apply principles of safety and health in a non-academic setting through an intern, cooperative, or supervised experience.
- Apply sampling, measurement methods, and control technologies to physical, chemical, and biological contaminant exposure risks.
- Demonstrate mastery of subject matter with high level oral and written communication skills.
- Demonstrate how to anticipate, recognize, evaluate, prevent and control strategies for hazardous conditions and work practices.
- Evaluate safety, health, and/or environmental programs of their design.
- Demonstrate the fundamental aspects of safety, industrial hygiene, environmental science, fire science, hazardous materials, emergency management, ergonomics and/or human factors.
- Apply relevant standards, regulations, and codes.

Worldwide

Students will:

- Have the ability to identify, formulate, and solve broadly-defined technical or scientific problems by applying knowledge of mathematics and science and/or technical topics to areas relevant to the discipline.
- Have the ability to formulate or design a system, process, procedure, or program to meet desired needs.
- Have the ability to function effectively on teams that establish goals, plan tasks, meet deadlines, and analyze risk and uncertainty.
- Have the ability to anticipate, recognize, evaluate, prevent, and control workplace safety and occupational health hazards within numerous industries to protect people, property, the environment, and organizational operations.
- Have an ability to effectively manage the occupational safety and health function within a variety of industries.
- Have an ability to justify occupational safety and health programs, initiatives and control efforts through the use of business and risk management metrics by maintaining compliance with applicable standards and regulations or through scientific evaluation of outcomes.
- Have an ability to effectively communicate and interact with persons at all levels within an organization and externally about occupational safety, health, and environmental management.
- Have the ability to practice and perform in an ethical, moral, responsible, and accountable manner in all aspects, but especially in the practice of safety, understanding the impact of technical and/or scientific solutions in global, economic, environmental, and societal contexts.
- Have the ability to identify an occupational safety and health research problem; complete a thorough review of the scholarly literature; formulate and test hypotheses or research questions; collect and appropriately analyze qualitative or quantitative data; and interpret and report research findings using scientific judgement to improve the field of occupational safety and health or to provide solutions to an occupational safety and health problem.