

Program Educational Objectives

Within a few years after graduation, the program graduates working as Occupational Safety professionals will demonstrate abilities to:

1. Apply knowledge and principles of mathematics, science, technology in the anticipation, recognition, and evaluation of conditions and practices in the work environment, and for the development of hazard prevention and control strategies.
2. Employ knowledge and principles of management, business, and behavioral sciences in the selection, implementation and administration of programs and procedures for hazard prevention and control.
3. Identify and apply relevant safety and health standards, laws, regulations, and best industry practices to occupational safety functions in the local, national or global context, as applicable.
4. Effectively communicate with diverse stakeholders, including management, workers, consumers, neighbors, and the public, to support occupational safety and health initiatives.
5. Continue their professional growth and the integration of new knowledge into their profession, and demonstrate ethical, societal, and professional responsibility.

Student Outcomes

Students graduating from the UW-Whitewater Bachelor of Science in Occupational Safety program will demonstrate:

- A. An 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.
- B. An ability to formulate or design a system, process, procedure or program to meet desired needs.
- C. An ability to develop and conduct experiments or test hypotheses, analyze and interpret data and use scientific judgment to draw conclusions
- D. An ability to communicate effectively with a range of audiences
- E. An ability to understand ethical and professional responsibilities and the impact of technical and/or scientific solutions in global, economic, environmental, and societal contexts
- F. An ability to function effectively on teams that establish goals, plan tasks, meet deadlines, and analyze risk and uncertainty

Furthermore, students graduating from the Bachelor of Science in Occupational Safety program will be able to:

1. Anticipate, recognize, evaluate, and develop control strategies for hazardous conditions and work practices;
2. Demonstrate the application of business and risk management concepts;
3. Demonstrate an understanding of the fundamental aspects of safety,
4. Demonstrate an understanding of the fundamental aspects of industrial hygiene,
5. Demonstrate an understanding of the fundamental aspects of environmental science,
6. Demonstrate an understanding of the fundamental aspects of fire science,
7. Demonstrate an understanding of the fundamental aspects of hazardous materials,
8. Demonstrate an understanding of the fundamental aspects of emergency management,
9. Demonstrate an understanding of the fundamental aspects of ergonomics;
10. Design and evaluate safety, health, and/or environmental programs;
11. Apply adult learning theory to safety training methodology;
12. Identify and apply applicable standards, regulations, and codes;
13. Conduct accident investigations and analyses;
14. Apply principles of safety and health in a non-academic setting through an intern, cooperative, or supervised experience