

## **OSEH B.S. Degree Program Objectives & Outcomes**

### **List of Program Educational Objectives:**

The program is designed for people interested in professions in the occupational safety and environmental health fields. The general education courses are used to develop basic science knowledge while the major courses focus on the application of science and mathematics in the technical and managerial aspects of safety and environmental health.

Objectives of the program include:

- Prepare students to enter the occupational safety and environmental health profession as a generalist with the skills necessary to begin a successful career.
- Encourage interest in continued professional development through formal graduate study and through other professional development courses and programs.
- Foster the students' ability to apply knowledge of math, science, and applied science principles to resolve safety and environmental health related issues.
- Provide fundamental education necessary to justify the receipt of the Graduate Safety Practitioner designation provided by the Board of Certified Safety Professional.
- Provide a solid educational foundation on which the graduate can build a career in an OSEH area as well as develop a multitude of scientific, social, and culturally based pursuits.
- Prepare students to function within multidisciplinary teams.

In addition to overall program objectives, each course within the OSEH curriculum has a well-defined set of objectives specific to that course. Meeting the objectives of each course establishes the educational foundation necessary to support the overall program goals.

### **List of General Program Outcomes**

Graduates of the B.S. OSEH program will demonstrate:

- (a) an ability to apply knowledge of mathematics, science, and applied sciences to solve Safety & Environmental Health (SEH) problems
- (b) an ability to analyze and interpret data relative to SEH
- (c) an ability to recognize, evaluate, and control systems, processes and behaviors that have loss potential
- (d) an ability to identify, design and implement hazard controls through the use of appropriate applied sciences

- (e) an ability to function on multidisciplinary teams
- (f) an ability to identify and solve applied science problems
- (g) an understanding of professional and ethical responsibility
- (h) an ability to communicate effectively through written and oral methodologies
- (i) the broad education necessary to understand the impact of SEH solutions in a global and societal context
- (j) a recognition of the need for and an ability to engage in professional development and life-long learning
- (k) a knowledge of contemporary issues relative to safety, environmental health and organizational management that impact others
- (l) an ability to use the techniques, skills, and modern scientific and technical tools necessary for professional practice in safety and environmental health