

Major Field Assessment Plan Occupational Safety, Health, and Environment (OSH&E)

The Bachelor of Science in Occupational Safety, Health, and Environment (OSH&E) program is designed to provide an academically comprehensive curriculum that prepares graduates with the ability and competency to become highly qualified safety, industrial hygiene, and environment professionals.

The educational objectives of the OSH&E program are to prepare students who:

1. Apply knowledge and principles of mathematics, science, technology, and management in industry, business, or other related areas of employment as occupational safety, health, and environment professionals.

Expected Outcomes

Students completing the Baccalaureate degree in OSH&E will demonstrate the ability to apply basic mathematical and scientific knowledge in the safety, health, and environment field.

Assessment

In the selected relevant courses ([OSHE 111, 112, 121, 241, 242, 261, 281, 282, 321, 324, and 441](#)), the exams and assignments should be designed to reflect the course objectives. Students are able to score at least 75% on math, statistics, and science related problems in the exams and assignments.

2. Apply practical-oriented knowledge and skills in safety, health, and environment to anticipate, identify and evaluate hazardous conditions and practices, to develop hazard control designs, methods, procedures and programs, and to implement and manage effective safety and health programs.

Expected Outcomes

Students completing the Baccalaureate degree in OSH&E will demonstrate the ability to anticipate, identify and evaluate safety, health, and environment hazards, and to develop and implement hazard control methods, programs, and system designs.

Assessment

- In the [majority of](#) courses, students are able to score at least 75% on technical problems regarding safety, health, and environment in the exams. Approximately 70% of the grade for each of those courses is based on the exam performance.
- In the selected relevant courses ([OSHE 111, 112, 121, 241, 242, 281, 282, 324, 341, and 441](#)), students are able to anticipate, identify, evaluate, and control hazards by scoring at least 75% on a research project in a simulated industrial

work environment. Approximately 30% of the grade for each of those courses is based on the quality of the research project.

3. Become effective communicators and ethical facilitators within the practice of safety, health, and environment.

Expected Outcomes

Students completing the Baccalaureate degree in OSH&E will demonstrate the ability to express thoughts effectively in oral and written communications, and to understand ethical behaviors and professional responsibility.

Assessment

- In the majority of courses, students are required to either write a technical research paper, or make an oral presentation of project, or both. Students are able to scoring at least 75% on those requirements. Approximately 30% of the grade for each of those courses is based on the quality of the research paper and/or presentation.
 - The exams in selected courses ([OSHE 111, 112, 121, 282, 321, 322, and 324](#)) include questions regarding codes of professional ethics. Students are expected to score at least 75% on those questions. For those who have opposite opinions on the ethical codes, individual counseling or discussion will be issued.
4. Continue professional development to address the need of applying principles of safety, health, and environment within a constantly changing and increasingly diverse environment.

Expected Outcomes

Students completing the Baccalaureate degree in OSH&E will demonstrate the ability to broaden education and life-long learning necessary to understand safety, health, and environment issues within a global and social context.

Assessment

- Students are encouraged to become a member of ASSE (American Society of Safety Engineers) Southeastern Louisiana University Student Section and be actively involved in the events and activities organized by the Student Section. At least 50% of upper-level students are ASSE members.
- Students are encouraged to continue personal growth and improvement by pursuing the widely recognized certifications including Certified Safety Professional (CSP) and Certified Industrial Hygienist (CIH). As measured on the Southeastern Alumni Survey, 50% of the OSH&E graduates will become CSPs.