

Occupational Safety, Health, and Environment (OSH&E) Program Outcomes

The OSH&E program outcomes at Southeastern are listed as follows:

1. Students completing the Baccalaureate degree in OSH&E will demonstrate the ability to apply mathematical and scientific knowledge in the safety, health, and environment field.
 - 1) Students will be able to apply mathematical and statistical knowledge in the safety, health, and environment field.
 - 2) Students will be able to demonstrate knowledge of principles in chemistry, physics, and biology as it pertains to the practice of safety, health, and environment.
 - 3) Students will be able to demonstrate knowledge of principles in business management as it pertains to the practice of safety, health, and environment.

2. Students completing the Baccalaureate degree in OSH&E will demonstrate the ability to anticipate, identify and evaluate safety, health, and environmental hazards, and to develop and implement hazard control methods, programs, and system designs.
 - A. Students completing the Baccalaureate degree in OSH&E will demonstrate the understanding of safety, health, and environment knowledge.
 - 1) Students will be able to demonstrate knowledge of occupational safety, health, and environmental fundamentals.
 - 2) Students will be able to demonstrate knowledge of legal aspects of safety, health, and environmental practices.
 - 3) Students will be able to demonstrate knowledge of the interactions of physical, chemical, biological, and ergonomic agents, factors, and/or stressors on the human body.
 - 4) Students will be able to demonstrate knowledge of the application of laws, regulations, standards, and codes to safety, health and environmental conditions.
 - 5) Students will be able to demonstrate and use principles of fire prevention and protection in the workplace.
 - 6) Students will be able to demonstrate knowledge of industrial and construction safety throughout the work processes.
 - B. Students completing the Baccalaureate degree in OSH&E will demonstrate the ability to obtain the necessary skills to anticipate, identify and evaluate safety, health, and environmental hazards, and to develop and implement hazard control methods, programs, and system designs.
 - 1) Students will be able to utilize basic laboratory instrumentations associated with safety, health, and environment to develop and conduct experiments or test hypotheses, analyze and interpret data and use scientific judgment to draw conclusions.
 - 2) Students will be able to anticipate, identify and evaluate hazardous agents, conditions, and practices.
 - 3) Students will be able to demonstrate knowledge and skills of fundamental exposure assessment and environmental sampling techniques.
 - 4) Students will be able to develop control designs, methods, procedures, and programs to eliminate or mitigate safety, health, and environmental hazards.

- 5) Students will be able to conduct accident/incident investigation and analysis.
 - 6) Students will be able to implement and manage effective safety, health, and environmental programs.
3. Students completing the Baccalaureate degree in OSH&E will demonstrate the ability to express thoughts effectively in oral and written communications, and to demonstrate ethical behaviors and professional responsibility.
- 1) Students will be able to effectively express thoughts in oral and written communications.
 - 2) Students will be able to demonstrate knowledge of the techniques, skills, and modern behavioral tools necessary for the practice of safety, health, and environment.
 - 3) Students will be able to effectively function as a part of multi-disciplinary teams that establish goals, plan tasks, meet deadlines, and analyze risk and uncertainty.
 - 4) Students will be able to demonstrate knowledge of professional and ethical responsibility.
 - 5) Students will be able to demonstrate knowledge of contemporary issues.
4. 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.
- 1) Students are encouraged to become members of ASSP (American Society of Safety Professionals) 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 ASSP members.
 - 2) Students are encouraged to continue professional growth and improvement by pursuing the widely recognized certifications including Certified Safety Professional (CSP) and Certified Industrial Hygienist (CIH), and/or by pursuing master's/doctoral degrees in environmental, health, and safety and similarly named programs. As measured on the Southeastern Alumni Survey, at least 50% of the OSH&E graduates will become CSPs and/or CIHs.