

# Safety and Health Courses

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**SHCB 100 - Orientation**

Hours: 0

**SHCB 300 - Introduction to Safety Studies**

Hours: 3

Students will develop the necessary writing, study, research resource, and Blackboard navigation skills necessary to successfully complete an occupational safety-related curriculum. Students will review the history of the development of occupational safety and health and methods of accident prevention and hazard control, and receive an introduction to safety programs, workers' compensation, emergency preparedness, and accident investigation.

**SHCB 301 - Technical Writing and Communication in Occupational Safety and Health**

Hours: 3

This course is a study and application of writing technical documents, letters, manuals, and reports. Emphasis is placed on presentations, team building, employee training, interviewing, business etiquette, and professionalism

**SHCB 310 - Legal Aspects of Safety and Health**

Hours: 3

This course examines the Occupational Safety and Health (OSH) Act and the authority of the Occupational Safety and Health Administration (OSHA); includes a review of employers' legal responsibilities and proactive measures to ensure compliance with the OSH legal and regulatory framework in America; discusses OSHA regulations including citations, penalties, inspections, and record-keeping; and studies legislative and legal decisions relating to personnel practices, employee safety, and public protection.

**SHCB 320 - Measures of Safety Performance**

Hours: 3

This course examines the strategies and methods for calculating, analyzing, interpreting and communicating safety performance data and presents lagging and leading metrics of safety, quantitative and qualitative statistical techniques, descriptive and inferential statistics, correlations, and financial principles.

**SHCB 330 - Human Factors in Occupational Safety**

Hours: 3

This course focuses on ergonomics, man/machine interface, and human efficiency. Students study work-related stress, psychological factors, and Cumulative Trauma Disorders, and solutions are reviewed for common problems found in labor-intensive operations.

**SHCB 340 - Occupational Safety and Health Program Management**

Hours: 3

Emphasizes personnel aspects, communication, and motivation in managing safety and health programs. Practices writing safety programs and implementing safety training. Evaluates the effectiveness of various methods and programs.

**SHCB 410 - Environmental Law and Management**

Hours: 3

This course reviews and analyzes laws affecting workplaces, including the Clean Water Act, Clean Air Act, RCRA, and CERCLA. Students also study these laws and related policies and practices as they are related to safety.

**SHCB 430 - Hazardous Materials**

Hours: 3

Study hazardous material problems in transportation, storage, and use of hazardous materials. Review chemical properties relating to specific reactions, engineering controls, and how to control materials in an emergency situation. Emphasis is placed on the role of pre-emergency planning, combating, coordinating resources, and controlling a hazardous materials incident.

**SHCB 499 - Occupational Safety and Health Capstone**

Hours: 3

Students examine case studies and real-life situations, combining knowledge they have gained from previous coursework to analyze and develop strategies, develop countermeasures, and engage in strategic planning, policy development, and training.