

# OCCUPATIONAL SAFETY (OSH)

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## **OSH 110. Introduction to Safety Studies. (3 Credits)**

A. Students will develop the necessary writing, study, research, and Blackboard navigation skills. Topics include history of OSHA, safety ethics, basic hazard identification and analysis, and safety profession and hazard reports.

## **OSH 200. Measures of Safety Performance. (3 Credits)**

A. Strategies and methods for calculating, analyzing, interpreting and communicating safety performance data. Presents lagging and leading metrics of safety, quantitative and qualitative statistical techniques, descriptive and inferential statistics, correlations, and financial principles. Credit will not be awarded for both OSH 200 and FSE 200.

## **OSH 225. Legal Aspects of Occupational Safety. (3 Credits)**

A. Study of the OSH Act, OSHA standards, correlating laws and legislation impacting the safety function and employee safety. Emphasis on legal rights, responsibilities, legal risks, liabilities, scope of authority, ethical/professional standards for safety professionals. Credit will not be awarded for both OSH 225 and FSE 225.

## **OSH 261. Principles of Occupational Safety and Health. (3 Credits)**

A. Prerequisite and/or Corequisite: OSH 110. Formerly: OSH 361. History of the development of occupational safety and health. Methods of accident prevention and hazard control. Introduction to safety programs, worker's compensation, emergency preparedness and accident investigation. Credit will not be awarded for students who have credit for OSH 361 or FSE 361.

## **OSH 262. Principles of Occupational Safety and Health Legislation. (3 Credits)**

A. Formerly OSH 362. B. Prerequisite or Co-requisite: OSH 261 Review of OSHA standards with emphasis on compliance and liability reduction. Discussion of OSHA regulations including citations, penalties, inspections, and record keeping. Credit will not be awarded for both OSH 262 and OSH 362.

## **OSH 300. Safety Training Strategies. (3 Credits)**

I, II, and A. Formerly OSH 450. Prerequisite: OSH 261. Students will learn how to apply adult learning and technical training strategies to occupational training programs for management and workforce safety related topics. Credit will not be awarded for both OSH 450 and OSH 300.

## **OSH 305. Hazardous Materials. (3 Credits)**

A. This course introduces students to the anticipation, recognition, evaluation management, and control of hazardous materials through focusing on applicable general industry standards 29 CFR 1910 Subpart H. Topics include HAZWOPER, Compressed Gasses, Flammable and Combustible Liquids requirements, and others.

## **OSH 349. Applied Learning in Occupational Safety. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit. Credit will not be awarded for both FSE 349 and OSH 349.

## **OSH 349A. Cooperative Study: Occupational Safety. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

## **OSH 349B. Cooperative Study: Occupational Safety. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

## **OSH 349C. Cooperative Study: Occupational Safety. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

## **OSH 349D. Cooperative Study: Occupational Safety. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

## **OSH 349E. Cooperative Study: Occupational Safety. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

## **OSH 349F. Cooperative Study: Occupational Safety. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

## **OSH 349G. Cooperative Study: Occupational Safety. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

## **OSH 349H. Cooperative Study: Occupational Safety. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

## **OSH 349J. Coop Study OSH. (1-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

## **OSH 350. Measures of Safety Performance. (3 Credits)**

A. Formerly OSH 200. Prerequisite: OSH 261. Strategies and methods for calculating, analyzing, interpreting and communicating safety performance data. Presents lagging and leading metrics of safety, quantitative and qualitative statistical techniques, descriptive and inferential statistics, correlations, and financial principles. Credit will not be awarded for both OSH 200 and 350.

## **OSH 366. Hazard Identification and Control. (3 Credits)**

A. Prerequisite: OSH 261 with a grade of C or higher or departmental approval. Hands-on approach toward identification and control. Areas of study include noise levels, chemical and electrical hazards, air contaminants, and heat/cold stress. Control measures include administrative, engineering, and safeguarding methods. Credit will not be awarded for both OSH 366 and FSE 366.

**OSH 367. Human Factors in Occupational Safety. (3 Credits)**

(3) A. Prerequisite or Co-requisite: OSH 261. Focuses on ergonomics, man/machine interface and human efficiency. Study of work-related stress, psychological factors, and Cumulative Trauma Disorders. Solutions are reviewed for common problems found in labor-intensive operations. Credit will not be awarded for both OSH 367 and FSE 367.

**OSH 370. Process Safety Management. (3 Credits)**

I, II, and A. Prerequisite: OSH 366. This course is designed to introduce the occupational safety student to the process safety management standard, 29 CFR 1910.119, and cover complex management topics involved in managing processes of highly hazardous chemicals.

**OSH 379. Construction Safety. (3 Credits)**

A. An in-depth analysis of the federal and Commonwealth of Kentucky's OSHA requirements for construction safety. Credit will not awarded for both OSH 379 and FSE 379.

**OSH 390. Workers Compensation. (3 Credits)**

A. Comprehensive study of workers' compensation. Topics range from coverage to claims, including in-depth study of the legal, no-fault, exclusive remedy nature of claims; underwriting and experience rating; business loss control measures; and loss control profession. Credit will not be awarded for both OSH 390 and FSE 390.

**OSH 410. Safety Management Systems. (3 Credits)**

I, II, and A. Prerequisite: ENG 102, 105, or HON 102; OSH 261. This writing-intensive course is designed to provide the student with the knowledge and skills to apply safety management systems components, hazard analysis, and causal analysis. Credit will not be awarded for both OSH 410 and OSH 410W.

**OSH 410W. Safety Management Systems. (3 Credits)**

I, II, and A. Prerequisite: ENG 102, 105, or HON 102; OSH 261. This writing-intensive course is designed to provide the student with the knowledge and skills to apply safety management systems components, hazard analysis, and causal analysis. Credit will not be awarded for both OSH 410 and OSH 410W.

**OSH 412. Safety Management Systems. (3 Credits)**

A. Prerequisite or Co-requisite: OSH 410W (C). Effective management and leadership principles applied to safety. Emphasis on developing organizational culture, key roles of safety professionals and preventing serious injuries. Strategies include identifying business concepts for safety, gaining meaningful employee engagement, and program development. Credit will not be awarded for both OSH 412 and FSE 412.

**OSH 420. Environmental Law and Management. (3 Credits)**

I, II. Formerly FSE 420. Review/analysis of laws affecting workplaces, including the Clean Water Act, Clean Air Act, RCRA and CERCLA. Additionally, study of these laws and related policies/practices will be covered as related to safety. Credit will not be awarded to students who have credit for FSE 420 or EHS 425.

**OSH 450. Safety Training Strategies. (3 Credits)**

I, II, and A. Students will learn how to apply adult learning and technical training strategies to occupational training programs for management and workforce safety related topics.

**OSH 489. Topical Seminar. (1-3 Credits)**

I, II, and A. Development of special skills and content knowledge of contemporary issues in occupational safety. May be retaken to a maximum of six hours, provided the subject matter differs each time.

**OSH 495. Senior Capstone. (3 Credits)**

Prerequisite: OSH 410 or 410W with a grade of C or better. Students examine case studies, examine real life situations, combine knowledge they have gained from previous coursework, analyze and develop strategies, develop countermeasures, engage in strategic planning and policy development and training.

**OSH 498. Independent Study. (1-3 Credits)**

A. Prerequisite: Departmental approval. Individual reading and research on a problem or area within the field or Occupational Safety, after student consultation with the instructor. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. May be retaken to a maximum of six hours providing project title differs.