

Occupational and Environmental Safety and Health Program Specific Coursework

OESH 3013 Fundamentals of Occupational Health and Safety - Introduction to major concepts and issues in occupational health and safety, including general principles, human work environment, control of hazards in the occupational environment, and occupational safety and health program requirements.

OESH 3023 Principles of Environmental Health - Overview of traditional, emerging, and controversial issues associated with environmental health.

OESH 3103 Recognition of Occupational Hazards - Introduction to the principles and practice of Industrial Hygiene through the study of chemical, physical, and biological agents responsible for occupational illness.

OESH 3113 Toxicology - Principles of toxicology with industrial and environmental implications and the toxicological effects of certain dangerous substances, chemicals, metals, and environmentally relevant pesticides.

OESH 3203 Control of Occupational Hazards – Introduction to control strategies to reduce or eliminate occupational hazards including administrative and engineering controls, ventilation, shielding, noise control, and biohazard, thermal stress and emission control.

OESH 3223 Industrial Hygiene Sampling and Analysis Laboratory - Introduction to the most common types of field measurements, sampling collection methods, and laboratory analyses that are used in evaluating occupational health hazards.

OESH 3303 Water, Wastewater, Solid and Hazardous Waste Treatment - Water quality, water supply, and wastewater disposal, as well as solid and hazardous waste management, treatment, and disposal technology.

OESH 3313 Epidemiology and Biostatistics - Introduction to basic concepts of epidemiology and biostatistics as well as some of the basic techniques of public health and evidence-based medicine.

OESH 4003 Internship - Supervised field-based experience in a private or public industrial, hospital, or governmental agency.

OESH 4013 OSHA Standards and Practices – Anticipation, identification, and evaluation of health and safety hazards and application of safety and health laws and OSHA regulations.

OESH 4113 Environmental Health and Safety Management – Introduction to EHS management principles in both office and industrial settings to develop safer and healthier work environments.

OESH 4203 Principles of Food Safety and Sanitation - Principles and techniques applied to the protection of food for human consumption. Emphasis is placed on food safety and proper environmental control measures to minimize health dangers.

OESH 4213 Construction Safety – Occupational safety hazards associated with the construction industry. Emphasis is placed on OSHA policies, procedures, as well as construction health and safety principles.

OESH 4223 Accident Investigation and Analysis- Introduction to principles and practices for understanding the nature of occupational hazard recognition, accident prevention, loss reduction, and accident investigation analysis.

OESH 4303 Environmental Risk Assessment – Introduction to risk analysis and examination of the fundamental aspects of risk, focusing on environmental and public health risks including hazard identification, exposure assessments, and risk communication.

OESH 4313 Ergonomics - Introduction to the principles of ergonomics including fundamental terminology, concepts and applications of physiology, anthropometry, biomechanics, and engineering to workplace design.

OESH 4323 Air Pollution – Pollutants, health effects, and technologies for controlling emissions.

OESH 4401 OESH Senior Seminar – Capstone course covering preparation for job searches, presentations, and certification exam preparation. Students will give formal presentations on their internship.