

CURRICULUM: CORE COURSES

The overall CARERC curriculum requires that all graduate students who receive tuition support and/or stipends must register for BAE 750-401 and BAE 678-001 with an interdisciplinary focus on occupational health and safety issues. These core courses include students from all disciplines within CARERC including Occupational Safety (OS), Occupational and Environmental Health Nursing (OEHN), Mining Safety and Health (MineSH), Occupational Epidemiology (OccEpi), Industrial Hygiene (IH), Agricultural Safety and Health (ASH) and Occupational Athletic Training (OAT). EKU trainees attend the CPH 716 Proseminars, but do not register and require the payment of tuition due to 1 hour of credit having no benefit toward degree completion.

Table 1. Core courses for the CARERC occupational safety program.

Course Title (number)	Semester Hours	Course Description
Occupational Health (CPH 620)	3	Introduction to occupational health and safety including, evaluation, and control of workplace hazards; screening and disease prevention; principles of industrial hygiene, occupational medicine, safety, nursing and ergonomics; regulatory issues; ethics; and special populations at risk.
Occupational Safety and Health Field Surveys (BAE 678)	3	Field survey course of a wide cross-section of occupational health and safety exposures in worksites in the Central Appalachian Region.
Occupational Safety and Health Seminar (CPH 716)	0-1	A monthly seminar course including presentations from faculty, staff, students, or invited speakers with professional expertise in occupational health and safety.

In addition to these courses, 18 credit hours from the core courses listed below in Table 2 are required for an MS in SSEM degree with a concentration in Occupational Safety.

Table 2. Core Courses Required for All SSEM MS Students with a Concentration in Occupational Safety.

Course Title (number)	Semester Hours	Instructor	Course Description
Safety, Security, and Emergency Management Administration (SSE 815) – EKU designated	3	Dunlap	Examination of administrative concepts and principles regarding organizing and managing the functional areas of fire, safety, and security. Development of organizational and administrative structure to include policy formulation, goals and objectives, managerial tasks, and impact evaluations within an encompassing safety, security, and emergency framework.
Issues in Security Management (SSE 827) – EKU designated	3	Kubala	Survey of salient issues and concerns confronting security managers. Examines the application and contribution of various management concepts and philosophies to assets protection issues such as information security, personnel protection, threat analysis, technological adaptation, and resource allocation.
Emergency Preparedness and Response (SSE 826) – EKU designated	3	Spurlock	In-depth study of the planning process, program development, training methods, etc., for response to man-made and natural emergencies/disasters for both private and public entities.
Legislation and Regulatory Compliance (SSE 833) – EKU designated	3	Schneid	Comprehensive study and analysis of federal/state regulations and legislation such as OSHA, EPA, etc., which mandate compliance with certain safety, health, and

			environmental conditions and practices relating to work performed in occupational, industrial, and comparable settings.
Auditing for Safety, Security, and Emergency Management (SSE 865) – EKU designated	3	Dunlap	Theory and application of auditing in safety, fire, and security. Comprehensive study of risk/threat exposure and assessment.
Research Methods (SSE880) – EKU designated	3	Dunlap	Models and applications of research design and planning in safety, security, emergency services and assets protection. Identification and evaluation of problems, information and data interpretation, and research/planning methodologies for contemporary approaches to proactive safety, security, and emergency services.

These required courses account for 24 credit hours (18 core course hours for the MS in SSEM; 6 core interdisciplinary course hours required by the CARERC). The Occupational Safety training program also requires the completion of a capstone (SSE 896) for 3 hours credit. The remaining 9 hours required for the MS in SSEM degree are completed by taking three courses from the course list in Table 3. Students may take other electives provided at EKU and UK with the review and approval of Dr. Dunlap.

Table 3. Additional Courses for the Occupational Safety Concentration.

Course Title (number)	Semester Hours	Instructor	Course Description
Industrial Safety Management (SSE 828) – EKU	3	Schneid	Investigation and analysis of hazard control principles relating to the management of personnel, facilities, and equipment, including control procedures, work-task analysis, risk identification and countermeasures, safety training, and pertinent safety management techniques.
Construction Safety (SSE 832) – EKU	3	Stumbo	Introduction/analysis of general construction safety utilizing the key components of 29 CFR196. Included in this study will be general safety & health provisions of OSH Act and a review of the various subparts of 29 CFR1926.
Corporate Compliance (SSE 834) – EKU	3	Schneid	The assessment, analysis and development of safety, emergency management, security and environmental compliance programs. This course will address the regulatory requirements and best business practices for each of the compliance areas.
Personal and Environmental Hazards (SSE 845) – EKU	3	Spurlock	Analysis and investigation of hazard and threat control principles relating to personal and environmental risks within the workplace. Investigation techniques, inspection methodologies, management techniques, and prevention programs essential to the manager within the safety, fire, and security functions are emphasized. Note: Though this course is listed here as a component of the EKU Occupational Safety concentration in the

			SSEM program, CARERC trainees are provided with a course substitution for CPH 620 due the similarity of content.
--	--	--	--