

THE UNIVERSITY OF FINDLAY



WHO WILL YOU [Be]?

AREA OF ENVIRONMENTAL, SAFETY AND OCCUPATIONAL HEALTH MANAGEMENT

Professors: Carter, Homsher

Associate Professor: Murphy

Assistant Professors: Doyle, Gillespie, Wilkinson

A Bachelor of Science degree is granted for baccalaureate programs in the Area of Environmental, Safety and Occupational Health Management (ESOH).

Baccalaureate Programs:

Environmental, Safety and Occupational Health Management

Minor:

Environmental, Safety and Occupational Health Management

ENVIRONMENTAL, SAFETY AND OCCUPATIONAL HEALTH MANAGEMENT (ESOH)

Director of Undergraduate and Graduate Programs: Carter

Professors: Carter, Homsher

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The environmental, safety and occupational health management major consists of required environmental, safety and occupational health management courses, required math and science courses, required School of Environmental and Emergency Management Training Center (ERTC) courses and elective courses from an approved list. Students may choose to take additional ERTC courses; however, only 1½ hours of ERTC elective courses can be counted toward graduation. Students must participate in at least one internship, cooperative position or cumulative experience for academic credit which allows students to gain practical on-the-job experience.

A major in environmental, safety and occupational health management consists of ESOH 100, 150, 180, 205, 270, 300, 315, 316, 316L, 420, 425; one hour of ESOH 490 or 495; BIOL 405 or 412 and 412L; BIOL 201 and 201L; CHEM 111 and 111L or 130 and 130L; CHEM 325 and 325L; CSCI 190; MATH 123; MATH 140 or 141; PHYS 250 and 250L; 1½ hours of ERTC courses from ESOH 135, 152, 153, 155, 160, 163, 206, 207, 208 or 485. In addition, students must complete 24 hours of electives from ESOH 320, 325, 335, 400, 405, 410, 415, 423, 427, 429, 435, 440, 465, 498; CHEM 131, 131L; GEOL 300, 410; NSCI 323; an additional four hours of physics or an additional 400-level biology course.

A minor in environmental, safety and occupational health management consists of 22 hours including ESOH 180, 270, 300, 315 and two other upper-level ESOH courses.

Training courses are taught at the School of Environmental and Emergency Management (ERTC) and are usually offered on weekends during the academic semester. Only one and one-half hours of elective training courses can be counted toward graduation.

- 100 ENVIRONMENT AND SOCIETY *GE 3 semester hours*
This course is designed to provide an overview initially of ecosystems — including their abiotic components — in their natural state absent any impacts by the industrial society and its sources. Thereafter, the course examines man's impact upon the ecosystem and public health by evaluating sources of air contaminants, water contaminants and soil contaminants and their adverse impacts along with an analysis of the generation and management of solid waste streams. The course concludes with a study of the identification and management of hazards in the workplace. United States environmental and occupational health and safety laws and regulations are the processes associated with their development, implementation and enforcement are examined throughout the course.
- 105 INTRODUCTION TO EMERGENCY MANAGEMENT *3 semester hours*
This course will serve as a practical introduction for students who must understand the process of disaster planning, response and mitigation through the use of selected case studies and examples of disasters from around the world to connect theory to real-world application.
- 110 STRATEGIES FOR COLLEGE LEARNING AND CAREER DEVELOPMENT *1 semester hour*
This course is designed to provide an overview of the various facets of the environmental and occupational safety and health industry and the related aspects of other industries. Effective study skills and time management are also introduced.
- 111 INTRODUCTION TO ENVIRONMENTAL, OCCUPATIONAL HEALTH AND EMERGENCY MANAGEMENT *1 semester hour*
Prerequisite: enrolled in the UF-USA program
This course is designed to provide an overview of the sociopolitical and technological responses to environmental pollution, occupational health and emergency management challenges in the United States. Topics include explanation of the fundamentals of environmental science and engineering, description of facts about global and domestic environmental issues, explanation of United States environmental, public health and safety policy, laws and regulations and a discussion of sustainability and environmental and health risk assessment. Throughout the course, there will be a discussion and demonstration of career opportunities in these fields.

- 135 CHEMISTRY OF HAZARDOUS MATERIALS (ERTC) *1 semester hour*
This course shows the student how fundamentals of chemistry apply to hazardous materials. Included are risks of exposure to hazardous substances, the Environmental Protection Agency (EPA) and Department of Transportation (DOT) perspectives for classification and chemical behavior of hazardous materials. Classroom demonstrations highlight the major concepts. Topic areas include hydrocarbons and their derivatives, flammable liquids and solids, explosives, reactives, corrosives, compressed gases and cryogenics and radioactive materials.
- 150 OSHA HAZARDOUS WASTE SITE WORKER
(40-HOUR SAFETY) TRAINING (ERTC) *2 semester hours*
This course provides participants with the practical knowledge concerning response operations for remediation incidents involving hazardous materials. The course emphasizes uncontrollable (remediation) site functions, methods of operation and safety in cleaning-up hazardous substances dumped or spilled, or investigations at abandoned hazardous waste sites.
- 151 OSHA 8-HOUR HAZARDOUS WASTE SITE WORKER
REFRESHER (ERTC) *.5 semester hour*
Prerequisite: ESOH 150
This course is designed to comply with 29 CFR 1910.120 requirements regarding annual follow-up training for hazardous waste site workers who have previously received the OSHA 40-hour Safety Training. This is a repeatable course. Graded S/U.
- 152 OSHA HAZARDOUS WASTE SITE SUPERVISOR
TRAINING (ERTC) *.5 semester hour*
Prerequisite: ESOH 150
This course trains the supervisor to implement the employer's programs in safety, health hazards, monitoring and protective equipment, as well as recordkeeping and documentation of site operations and accident management techniques.
- 153 TECHNICIAN LEVEL EMERGENCY RESPONSE
TRAINING (ERTC) *1 semester hour*
Prerequisite: ESOH 150
This course provides participants with practical knowledge concerning response operations for emergency incidents involving hazardous materials. The course emphasizes the incident command system (ICS), methods of mitigation and control at an emergency response, safety issues considered in an emergency response and termination procedures.

- 154 REFRESHER FOR EMERGENCY RESPONDERS TRAINING (ERTC) *.5 semester hour*
This course is designed to address the OSHA 8-hour annual refresher training requirement. It is also designed for training the emergency responder at the operations and technician levels. The workshop reviews the basic requirements and current updated regulations and techniques associated with emergency response. Through the use of scenarios and hands-on exercises, it allows students to maintain their proficiency in the regional areas. Graded S/U.
- 155 INCIDENT COMMAND FOR INDUSTRIAL RESPONDERS TRAINING (ERTC) *.5 semester hour*
Prerequisite: ESOH 153
This course will introduce participants to the ICS as addressed by the Federal Emergency Management Agency (FEMA) and the National Fire Academy. Recommendations from OSHA, National Fire Protection Association (NFPA) and EPA will be stressed. Students with industry background will gain the knowledge and experience of what assisting agencies can offer in a hazardous materials or “hazmat” incident. They will also learn how they fit into the ICS on larger scale events. Students with public agency background will gain knowledge and experience in working within the incident command structure. Students with emergency response background will gain knowledge and experience in commanding spill mitigations and clean-up. They will also learn how to better work with outside agencies. Strong emphasis will be given to actual case studies, scenarios and table-top exercises.
- 160 CPR/FIRST AID/ADVANCED FIRST AID *1 semester hour*
This course is designed to introduce concepts of first aid and build the student’s knowledge base to an operations level. The training will consolidate student’s knowledge and skills in order to operate at the workplace in the private or public sector.
- 163 PERSONAL EMERGENCY PREPAREDNESS *1 semester hour*
Emergency preparedness is a shared responsibility requiring each individual to take charge of his/her own preparedness. This course will review the needs and requirements for individual and family emergency preparedness and train the student in the preparation of individual and family emergency plans for family members.
- 165 SEARCH AND RESCUE *1 semester hour*
This course will focus on the basics of search and rescue and include training to achieve the competencies required to demonstrate basic Search and Rescue (SAR) principles and skills to become Call Out Qualified (CMQ) and become certified in FEMA Community Emergency Response Team (CERT).

- 180 INDUSTRIAL PROCESSES AND HAZARD RECOGNITION *3 semester hours*
Prerequisite: ESOH 100 or permission of instructor
This course is designed to introduce the main processes involved in mining, production and manufacturing operations. Through a combination of lectures, case studies and field trips, the student will recognize the potential sources of occupational hazard exposure, air and water pollution and solid waste that result from such operations. While the major focus of the course will be basic recognition, attention will be given to methods of scientific evaluation, engineering control and regulatory requirements.
- 200 EMERGENCY MANAGEMENT AND LAW *3 semester hours*
This course will focus on the United States and Ohio statutes, regulations and standards that govern emergency management. The class will review the Patriot Act; Disaster Mitigation Act; Stafford Emergency Assistance and Disaster Relief Act; 44 C.F.R.; Emergency Management and Assistance; Comprehensive Environmental Response, Compensation and Liability Act; Federal Civil Defense Act of 1950, as amended; Public Law 96-342, Improved Civil Defense, 1980; Pollution Prevention Act and the relevant Ohio statutes, regulations and policies.
- 205 OSHA 30-HOUR GENERAL INDUSTRY COMPLIANCE (ERTC) *1.5 semester hours*
This course will provide the student with the basic information and training requirements necessary to develop and implement an in-house OSHA voluntary compliance program and methods of finding, interpreting and implementing regulations pertaining to employee safety. Course topics will include: introduction to OSHA; OSHA Act and General Duty Clause; inspections, citations, penalties and recordkeeping; walking and working surfaces; means of egress and fire protection; hazardous materials; personal protective equipment; permit-required confined spaces; lockout tagout; materials handling; machine guarding, welding, cutting and brazing; electrical and safety-related work practices; hazard communication; OSHA recordkeeping and other OSHA regulations. The instructors have been approved to teach the course and will issue Department of Labor voluntary compliance class completion cards to each student completing the course.
- 206 CONFINED SPACE ENTRANT/ATTENDANT,
SUPERVISOR AND BASIC RESCUE TRAINING (ERTC) *1.5 semester hours*
This course is designed for those in charge of confined space entry programs needed to meet the requirements of 29 CFR 1910.146. The written programs and the procedures required to be implemented are explained so that entries can be made in a safe and timely manner. Much emphasis is placed on assessment of confined space hazards and monitoring for atmospheric hazards both present or potentially possible. OSHA recommended criteria for working in confined spaces are emphasized. Self-rescue and attendant-assisted rescue techniques are stressed to allow for safe egress should a problem arise.

- 207 DOT HAZARDOUS MATERIALS TRANSPORTATION TRAINING (ERTC) *1.5 semester hours*
 This course is structured for participants to learn the basic hazardous materials transportation regulations (49 CFR), and how to apply them to daily operations involving any of the four transportation modes (air, water, rail, highway). Training covers hazardous materials package selection, use, marketing and labeling, proper shipping name, hazard class, UN/NA identification numbers and packaging group for shipping paper preparation. Additional considerations for hazardous waste, hazardous substances, marine pollutants and inhalation hazard poisons are studied. Training topics include: UN Performance Packaging Standards (HM-181), hazardous material identification, DOT Hazard Communication, how to use the hazardous materials table, hazardous material incident notices/reporting, page loading/unloading and UN Recommendations HM-215A.
- 208 RCRA HAZARDOUS WASTE GENERATOR TRAINING (ERTC) *1.5 semester hours*
 This course is designed to ensure that a facility's operations achieve and maintain regulatory compliance while meeting federal and state personnel training requirements for industries and federal facilities that generate hazardous waste. Training workshop topics include cradle-to-grave management overview; hazardous waste identification; satellite accumulation area and containers; generator container/tank storage; container labeling; Resource Conservation and Recovery Act (RCRA) permits-exempt activities; recordkeeping/personnel training; RCRA preparedness and prevention programs; RCRA contingency plans and how to complete hazardous waste manifests, Land Disposal Restriction (LDR) notification forms, annual/biennial reports and exception reports.
- 220 PRINCIPLES OF MANAGEMENT AND STRATEGIC PLANNING *3 semester hours*
 This course is the introduction to management principles and long term strategic planning. It emphasizes the need for planning and the use of standard and non-standard planning techniques and procedures as they apply to emergency management planning.
- 250 EMERGENCY MANAGEMENT TECHNOLOGY *3 semester hours*
 This course will focus on the existing technology tools as well as discussions on tools of the future to be used in the assessment, planning and management of emergencies. Technology to be reviewed and utilized includes Geographic Information Systems (GIS) and land use mapping systems, public health databases and various communication technologies. In addition the concept of communication inoperability will be addressed.

- 255 INCIDENT SCENE AND EVIDENCE INVESTIGATION 3 semester hours
This course will focus on the basic considerations of concern prior to, during and after the incident scene investigation. The course will emphasize the taking, preservation and analysis of evidence for use in administrative, civil and criminal matters. Additionally, the course will cover the law of evidence and the use of expert opinion as evidence. Interview techniques will also be discussed.
- 257 BEHAVIORAL ASPECTS OF EMERGENCIES 3 semester hours
This course covers the study of human behavior during an emergency, to include: How do we function in normal situations versus how do we function in stressful situations, and then add to it the component of experience. Does experience make a difference?
- 270 FUNDAMENTALS OF OCCUPATIONAL HEALTH GE 3 semester hours
Prerequisites: ESOH 180 and CHEM 130
This course is an introduction to the scientific methods of anticipating and recognizing occupational and environmental hazards that may cause injury or disease among workers and/or citizens of a community. Emphasis is placed upon the general workplace standards of OSHA. Specific topics include the entry and action of biological, chemical and physical hazards, air sampling, monitoring, selection and use of personal protective equipment. Case examples are used throughout.
- 300 ENVIRONMENTAL REGULATIONS AND LAWS 4 semester hours
Prerequisite(s): ESOH 100, 180 and 270 or permission of instructor
This course studies the federal legislative and regulatory processes associated with the regulation of air quality, air contaminant sources, surface water quality, sources of water pollutants, drinking water, solid and hazardous waste, the remediation of soil and groundwater and the reporting of the storage and releases of hazardous and toxic chemicals. Specific study is made of the Administrative Procedure Act, the Clean Air Act, the Clean Water Act, the Safe Drinking Water Act, the Resource Conservation and Recovery Act, the Comprehensive Environmental Response, Compensation and Liability Act and the Emergency Planning and Community Right to Know Act and their implementing regulations. Resources utilized include the United States Code, the Federal Register and the Code of Federal Regulations.
- 315 ENVIRONMENTAL SAMPLING AND STATISTICS GE 4 semester hours
Prerequisite(s): ESOH 100, 180, 270, 300 and MATH 123 or permission of the instructor
Participants implement procedures for planning, collecting, documenting, interpreting and assessing the quality of environmental sampling data. Case studies are used to assist students in preparing a sampling and analysis plan for contaminants and sites selected by participants. A group sampling exercise is planned and completed by the class at a site. USEPA sampling guidelines are applied throughout the course.

- 316 ENVIRONMENTAL ANALYSIS AND STANDARD METHODS/LECTURE 3 semester hours
Prerequisite(s): ESOH 315 and CHEM 325 and 325L or any other organic chemistry lecture and laboratory course or permission of instructor
Concurrent: with ESOH 316L
 This course provides an introduction to the fundamentals, techniques and applications of “classical” (wet) and instrumental methods of analysis by examining standardized measurement techniques in environmental and health and safety investigations as the foundation of defensible decision making.
- 316L ENVIRONMENTAL ANALYSIS AND STANDARD METHODS/LAB 1 semester hour
Prerequisite(s): ESOH 315 and CHEM 325 and 325L or any other organic chemistry lecture and laboratory course or permission of instructor
Concurrent: with ESOH 316
 Measurements of volatile, semi-volatile and inorganic compounds and metals are conducted following APHA, ASTM, AWWA, EPA and NIOSH standard methods. Sample matrices tested include soil, water and air. Both field and laboratory procedures are utilized. Students conduct both field sampling and pertinent analysis of collected samples.
- 320 EMERGENCY MANAGEMENT FINANCE 3 semester hours
 This course will focus on two areas of emergency management, the contracting for goods and services before, during and after an emergency; and the financial management of emergencies from the point of view of governmental agencies, businesses and individuals.
- 325 EMERGENCY MANAGEMENT STANDARDS AND PROCEDURES I-THEORY 3 semester hours
 This course will explore the theory underlying the following national standards and industry procedures: National Incident Management System (NIMS), National Fire Protection Association (NFPA) 1600, Unified Command, Incident Command System, Mutual Aid and the National Model, Liaison, and Communicating in an emergency.
- 335 INDUSTRIAL HYGIENE SAMPLING AND CALCULATIONS 4 semester hours
Prerequisites: ESOH core, BIOL 201 and a physics course
 This course is a continuation of the concepts of ESOH 270. The first two-thirds of the course places emphasis on methodologies of gas, vapor and aerosol sampling; including instrumentation function and calibration, the last third of the course involves measurement and evaluation of physical hazards including noise, heat stress, lighting and ergonomic hazards. The course will include a major emphasis upon the types of problems and calculations likely to be found in the ABIH certification examination. The course has laboratory exercises and uses a case study to explore the methods of sampling.

- 400 ENVIRONMENTAL PERMITTING AND REPORTING *4 semester hours*
Prerequisite(s): ESOH core or permission of instructor
This course is an advanced application course which studies the preparation and analysis of air and water permits and the preparation of quarterly and annual reports, all of which are submitted to state and federal regulators. Students examine and complete various federal and state permit applications regulating air contaminant sources, surface water discharges, discharges to sanitary sewers and storm-water discharges. The course also requires the study of annual generator hazardous waste reports, hazardous chemical inventories, toxic release inventories and the requirements associated with accidental release reports under the Clean Water Act, the Comprehensive Environmental Responses Compensation and Liability Act and the Emergency Planning and Community Right to Know Act. The course also studies the regulatory enforcement process associated with an entity's noncompliance with permits and reports, including the administrative and judicial processes, penalty calculations and negotiations.
- 405 ENVIRONMENTAL TREATMENT METHODS *GE 4 semester hours*
Prerequisites: ESOH 270, 300, 335 and one course each in chemistry and math
This course is a comprehensive overview of treatment technologies currently in use in the environmental industry. The course explores both theoretical and practical aspects using a case study approach.
- 410 HUMAN RESOURCES ISSUES FOR ENVIRONMENTAL,
SAFETY AND HEALTH MANAGERS *4 semester hours*
This course provides an overview of key areas of human resource management that overlap with the management of environmental, health, safety and security issues at industrial facilities. Topics include job and training analysis, labor relations, recordkeeping and reporting, accident investigation and worker's compensation, crisis management and contingency planning, as well as fraud and other investigations.
- 415 INTRODUCTION TO PROJECT MANAGEMENT *4 semester hours*
This is a course designed to provide an introduction to project management, particularly in the area of environmental and safety and health programs. Both the technical aspects of integrated project management, (e.g., scope, work breakdown, scheduling, budgeting, completion) and personnel issues within a project team are described. Students discuss case studies, prepare an individual project plan and work with various management tools (e.g., PERT network diagrams and Gantt charts.)

- 420 MANAGEMENT OF SAFETY AND HEALTH PROGRAMS *4 semester hours*
Prerequisite: ESOH 270, BSEM 325 or an equivalent course
This comprehensive capstone health and safety course includes detailed study of the occupational safety and health regulatory compliance requirements in prototypical U.S. industrial facilities. It utilizes both the General Industry Standards of OSHA (29 CFR 1910) and Construction Standards OSHA (29 CFR 1926) as well as professional standards of the major consensus practice organizations that address the practice of occupational health in general industry and construction environments. Accident investigation and root cause analysis is conducted. Case studies examine different workplace settings and roles (e.g. regulator, consultant or facility staff) as well as the possible management tasks that students may encounter in professional employment. Students are required to complete workplace and facility audits, create program documents and conduct mock management assessments pertaining to staffing and budgetary concerns.
- 423 EMERGENCY MANAGEMENT STANDARDS AND PROCEDURES II - APPLICATION *3 semester hours*
The course will take the theory taught in ESOH 325 and focus on the practical application of the following standards and procedures addressed in a scenario- and case-based learning format: NIMS, NFPA 1600, unified command, incident command system, mutual aid and the national model, liaison and communicating in an emergency. Case studies examine different workplace settings and roles (e.g., regulator, consultant or victim) as well as the possible management tasks that students may encounter in professional employment. Students are required to complete workplace and facility audits, create program documents and conduct mock management assessments.
- 425 ENVIRONMENTAL RISK ASSESSMENT *4 semester hours*
Prerequisite(s): ESOH 316 and 316L or permission of instructor
This capstone course applies the principles of exposure and toxicity assessment to characterize risk using a case-study approach. The student will apply these principles to contaminants and exposure routes at a site selected with the instructor's approval. Class discussions and risk calculations will cover exposure assessments for air, water, soil and food. Risk-based environmental decision methods are introduced.
- 427 THREAT AND VULNERABILITY ASSESSMENT AND MANAGEMENT *3 semester hours*
This capstone course applies the principles of threat and vulnerability assessment to characterize risks facing communities and workplaces using a case-study approach. Class discussions will cover such hazards as hazard and threat recognition, vulnerability analysis, biohazards, trend analysis, risk mitigation, continuity of business operations and mutual aid agreements for the private sector. Risk-based decision methods are introduced.

- 429 ALL HAZARDS EMERGENCY PLANNING *3 semester hours*
This capstone course will be the culminating course in the emergency planning portion of the program. It will bring together concepts and procedures from previous course work and will address the following topics: Communications inoperability; mutual aid agreements; use of the national model proposed by Department of Homeland Security (DHS) and National Emergency Management Association (NEMA); business continuity; resource management; donations management; debris management; volunteer management and leadership.
- 435 CONTROL AND ENGINEERING IN INDUSTRIAL HYGIENE *4 semester hours*
This course is a detailed study of ventilation control methods. Case studies of general methods and local exhaust for control of hazardous gases, vapors and aerosols are investigated. Calculations regarding the capture and reduction in contaminant levels are required. Investigation of noise, temperature, ergonomic and radiation factors are considered. Students conduct a ventilation and noise investigation that properly implements control practices in an industrial setting.
- 440 ECONOMICS AND POLICY DEVELOPMENT OF ENVIRONMENTAL, SAFETY AND OCCUPATIONAL HEALTH MANAGEMENT *4 semester hours*
This course examines the historical evolution of policy-, law- and rule-making in the fields of environmental health and protection, public health and occupational safety and health. The course evaluates the impact that these programs have had upon the health of the natural environment and the health of American citizens and workers, as well as the impact of protective measures on the financial competitiveness of U.S. industries. The effects of globalization, as well as alternative policy approaches such as disease prevention/health maintenance, pollution prevention, sustainable development and industrial ecology are also addressed.
- 465 ENVIRONMENTAL AUDITS AND ASSESSMENT *4 semester hours*
Prerequisites: ESOH 300
This is a comprehensive capstone environmental course that instructs students on approaches for conducting industrial operational compliance audits for all applicable air, water and waste regulations as well as permitting and reporting requirements. Students also obtain a working knowledge of, and ability to conduct or direct, Phase I and Phase II environmental site assessments pursuant to American Society for Testing and Materials (ASTM) standards.

- 485 TRAIN-THE-TRAINER (ERTC) *1.5 semester hours*
This course helps qualify individuals for workforce training roles. It describes the approaches of needs analysis, task analysis and performance objectives that are used to design training; lesson plans, delivery and assessment techniques; and the validation and documentation of training programs. Instructional strategies and media and delivery techniques appropriate to the adult learner are also described. This is a practical hands-on course where each student is expected to develop, deliver and be critiqued on a training presentation. The presentation will be videotaped for those who request. The course is designed for compliance with the ANSI Z-490 standard and participants are eligible to sit for the National Environmental Training Association CET or CIT exam.
- 490 INTERNSHIP IN ENVIRONMENTAL, SAFETY AND OCCUPATIONAL HEALTH MANAGEMENT *1 to 15 semester hour(s)*
Prerequisites: ESOH 100, 180 and at least two science courses, permission of the instructor and completion of an application from the PEP Office
This experience includes a practical experience-oriented activity involving an internship, co-op or other significant work experience in which students work for a company or public entity involved in any facet of an environmental, safety and health industry. The work experience must be pre-approved by a faculty member and the Professional Experience Program Office. Regular reports and a portfolio of material accomplished during the experience must be presented to the faculty member to receive credit. The number of credits will be determined with the student's adviser.
- 495 ADVANCED TOPICS IN ENVIRONMENTAL, SAFETY AND OCCUPATIONAL HEALTH MANAGEMENT *1 to 5 semester hour(s)*
This course provides for study of selected areas of environmental, safety and occupational health management not included in regularly offered courses. The course may be taken multiple times, provided the topics are different.
- 498 SURVEY OF EMERGENCY AND DISASTER MANAGEMENT *3 semester hours*
This course will offer participants the opportunity to learn about the latest technologies, events and issues relevant to being an effective and well-versed emergency management professional.

