

# COURSE DESCRIPTIONS

## EMERGENCY MGMT HOMELAND SECURITY

---

### **EMHS 5003: Principles and Practice of Disaster Relief and Recovery**

Recovery issues are studied in regard to relationships with ethical, medical, economic and environmental considerations. Initial, short-term, and long-term recovery efforts are examined along with group exercises utilizing best practices.

Note: Students who have taken EAM 4003 cannot take EMHS 5003 Principles and Practice of Disaster Relief and Recovery for credit.

### **EMHS 5043: Disaster and Emergency Management Ethics**

Involves a study of a variety of types of ethical theory (teleological, deontological, distributive theories of justice, natural law), review of specific ethical dilemmas related to disasters, professional ethics, overcoming biases, avoiding discrimination, and developing sensitivity. Detailed ethical case studies will be conducted.

Note: Students who have taken EAM 4043 cannot take EMHS 5043 Disaster and Emergency Management Ethics for credit.

### **EMHS 5053: Community Management of Hazardous Materials**

Addresses chemical properties of hazardous materials and wastes; legal requirements for their handling, storage, transportation, and disposal; and methods for protecting employees, facilities, and the community.

Note: Students who have taken EAM 4053 cannot take EMHS 5053 Community Management of Hazardous Materials for credit.

### **EMHS 5093: Grants**

This course will cover the federal grant funding streams used by emergency management at the local, state, and federal levels. Students will learn the strategy behind each grant funding stream, eligibility qualifications, development of grant budgets and justifications. Students will learn the basics of grant writing, budgeting, purchasing, filing for reimbursement, and requirements for audit. Each basic step will be broken down into a series of tasks assigned each week throughout the semester.

### **EMHS 5103: Critical Infrastructure**

Examines the nation's critical infrastructure protection, risk management, and resilience from a policy perspective.

### **EMHS 5991: Special Problems and Topics**

The topics will vary to reflect the dynamic changes in the emergency management discipline.

Note: Students who have taken EAM 4993 must have approval from the Department Head regarding the topic for credit in EMHS 5993 Special Problems and Topics.

Note: May be repeated for credit.

### **EMHS 5992: Special Problems and Topics**

The topics will vary to reflect the dynamic changes in the emergency management discipline.

Note: Students who have taken EAM 4993 must have approval from the Department Head regarding the topic for credit in EMHS 5993 Special Problems and Topics.

Note: May be repeated for credit.

### **EMHS 5993: Special Problems and Topics**

The topics will vary to reflect the dynamic changes in the emergency management discipline.

Note: Students who have taken EAM 4993 must have approval from the Department Head regarding the topic for credit in EMHS 5993 Special Problems and Topics.

Note: May be repeated for credit.

### **EMHS 6003: Design and Management of Preparedness and Mitigation Systems**

Reviews the needs and concepts for well-structured design and management processes for preparedness and mitigation systems in both the public and private sectors utilizing best methods for implementation.

### **EMHS 6023: Risk and Vulnerability Assessment for Business and Industry**

Prerequisites or Co-requisites: EMHS 6063 Principles of Emergency Management or consent of instructor.

Covers the hazards and threats that businesses and industry face regarding security, safety, and business continuity. The scope of threats and businesses studied range from local to international. Risk analysis, vulnerability, recovery, and business continuity plans will be examined.

### **EMHS 6033: Leadership and Management**

Prerequisites: Consent of Graduate Program Director or Department Head.

This course is designed to provide the student with the basic principles and elements of leadership and management. Leadership theories and leadership development will be explored. Additionally, the impact of communication on leadership and management will be examined.

**EMHS 6043: Contemporary Issues in Emergency Management**

Emphasizes and analyzes the practical aspects of problems facing the emergency manager. Topics could include compliance issues with regard to Homeland Security, the National Incident Management System, the National Response Plan and other national initiatives.

**EMHS 6053: Advanced Legal Issues in Emergency Management and Homeland Security**

Prerequisites: EMHS 6133 Ethical, Legal, and Political Considerations in Emergency Management and Homeland Security or consent of Graduate Program Director or Department Head.

This course involves research, analysis, and discussion of laws that affect emergency management and homeland security. Emphasis will be placed on the legal obligations of the emergency management or homeland security professional.

**EMHS 6063: Principles of Emergency Management**

This course provides an overview of issues related to emergency management including the history of emergency management, key policy, natural and technical hazards, comprehensive emergency management, and current issues. It examines the role of public, private, and non-governmental organizations in emergency management, future direction of the field, and discusses several practical considerations for emergency managers pertaining to preparedness, response, recovery, and mitigation.

**EMHS 6073: Terrorism and Counterterrorism**

This course is designed to provide a critical introduction to the subject of terrorism. Students will explore various aspects of terrorism, including the history of terrorism and strategies of dealing with terrorism, leading to a basic understanding of a global phenomenon.

**EMHS 6083: Business Continuity Project Management**

Prerequisites: EMHS 6063 Principles of Emergency Management or consent of instructor

EMHS 6083 Business Continuity Project Management is open to Emergency Management graduate students only. The topics will vary to reflect the continual changes in the emergency management field. This course may also serve as an independent study course upon recommendation of the advisor and approval by the dean. Graduate students will be assigned additional readings and projects of concentration to demonstrate a broad understanding of the special problem or topic being investigated or studied.

**EMHS 6093: Principles of Homeland Security**

This course examines fundamental concepts of homeland security. Topics to be covered include: terrorism; extremism; homeland security agencies; interrelated duties, relationships, roles, and methods used by governmental agencies; individuals responding to agency issues; historical events; and state and national laws that impact the most critical threats.

**EMHS 6103: Research Design and Methods**

This course is designed to assist students in developing an understanding of the foundations of research including the principles that guide the research process, the elements of research design, how to read and analyze research articles, and how to write a literature review.

Note: May be repeated for credit.

**EMHS 6123: Applied Data Analysis**

Prerequisites: EMHS 6103 Research Design and Methods and EMHS 6933 Research I or consent of Graduate Program Director or Department Head.

This course is designed to further students' progress in the research sequences. The student is guided by a faculty member to conduct individual original research including data collection, analysis, interpretation, and reporting of the findings.

Note: May be repeated for credit.

**EMHS 6133: Ethical, Legal, and Political Considerations in Emergency Management and Homeland Security**

This course examines and applies ethical, legal, political, and social issues in Emergency Management and Homeland Security.

**EMHS 6143: Social Vulnerability**

This course reinforces understanding on social vulnerability and vulnerable population in relation to hazards and disasters. Students will analyze social, geographical, and cultural factors that put people differently at risk before, during, and after disasters. Students will explore how vulnerability influences the ability to mitigate to, prepare for, respond to and recover from hazards and disasters. Theories and concepts pertaining to social vulnerability are studied, along with social vulnerability and resilience measurement indices. This course also focuses on the interrelated relationship between disaster and development, and examines the importance of reducing liabilities and increasing capabilities to reduce vulnerability. The course emphasizes the importance of social and cultural considerations in emergency management activities to foster disaster resilience.

**EMHS 6193: Introduction to International Emergency Management**

This course provides students with the study of disaster trends and diverse emergency and disaster management systems and structures that exist throughout the world. Universal principles of global emergency management practice and advances worldwide will be considered. Lessons from disasters will be addressed and political challenges and cooperation between governments and non-governmental organizations (NGOs).

**EMHS 6203: Crisis Communications**

This course will cover both the theoretical and practical perspectives of crisis communications. Students will learn the importance of an organized approach to dealing with unexpected, crisis situations and the need for clear, concise information communicated effectively.

**EMHS 6243: Intelligence in Emergency Management and Homeland Security**

This course is an overview of the field of intelligence with an emphasis on understanding the basics of the field and how it is used in actual practice. In an ever-changing world it is critical to understand the basics of information gathering and how it is analyzed to produce actionable results. Students will explore governmental concerns, intelligence operations and the politics of dealing with information for defensive purposes.

**EMHS 6253: Information Security for Public Managers**

This course is an overview of information security management for a public department and agency. Students will explore governance, determine current state of security, and learn the concepts of IT-risk assessments, IT-risk mitigation, and incident responses in the realm of the public sector.

**EMHS 6333: Epidemics and Pandemics**

This course introduces students to the history of infectious diseases and their causative agents, emerging and reemerging diseases that lead to epidemics and pandemics, fundamental epidemiological principles, and surveillance and mitigation strategies. Factors such as urbanization, modern transportation systems, environment, and disrupted ecosystems contributing to the emergence of new infectious diseases and the spread of older diseases will be explored. This course will also examine societal responses to disease, public policy considerations, and the emerging threat of bioweapons.

**EMHS 6413: Capstone**

Prerequisite: EMHS 6103 Research Design and Methods and 6933.

This individualized course is designed to promote the integration of the core curriculum and practitioner experiences in the Master of Science degree program in Emergency Management and Homeland Security and to help prepare the student for transition to a professional position following completion of the degree.

Note: May be repeated for credit.

**EMHS 6423: Professional Practical Experience and Project Development**

Prerequisites: EMHS 6063 Principles of Emergency Management, EMHS 6093 Principles of Homeland Security, and EMHS 6103 Research Design and Methods or consent of Graduate Program Director or Department Head.

This course provides students the opportunity to participate in an approved professional experience in support of a practicum research project in the fields of emergency management and homeland security.

Note: May be repeated for credit for a maximum of six (6) hours.

**EMHS 6513: Technology for Comprehensive Emergency Management**

This course introduces emerging technologies with application to emergency management and homeland security.

**EMHS 6543: Geographic Information Systems in Emergency Management and Homeland Security**

This course emphasizes both the theoretical and practical aspects of database management, Geographic Information Systems (GIS) modeling and spatial analysis, and decision support systems in emergency management and homeland security. This course aims to integrate these advanced technologies into situational awareness fusion products.

**EMHS 6563: Situational Awareness of Environmental Threats**

This course provides an overview of basic threats levels as they relates to the emergency management profession. Students will examine; hazardous weather forecast verification and meanings, decisions making processes based on alert status, development of environmental threat teams, utilizations of technology to assess risk, and National Weather Service products. Student teams will participate in labs, table top scenarios, and exercises. Each graduate student will conduct a special (research) project for presentation to the class at the end of the semester.

**EMHS 6891: Independent Study**

Prerequisite: Permission of advisor who will direct the independent study.

Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the purpose of the University's graduate program. Students will be required to plan their studies and prepare formal written reports of their findings. The selected topic may not constitute any duplication of study leading to the accomplishment of a thesis.

Note: May be repeated for credit.

**EMHS 6892: Independent Study**

Prerequisite: Permission of advisor who will direct the independent study.

Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the purpose of the University's graduate program. Students will be required to plan their studies and prepare formal written reports of their findings. The selected topic may not constitute any duplication of study leading to the accomplishment of a thesis.

Note: May be repeated for credit.

**EMHS 6893: Independent Study**

Prerequisite: Permission of advisor who will direct the independent study.

Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the purpose of the University's graduate program. Students will be required to plan their studies and prepare formal written reports of their findings. The selected topic may not constitute any duplication of study leading to the accomplishment of a thesis.

Note: May be repeated for credit.

**EMHS 6933: Research I**

Prerequisite: EMHS 6103 Research Design and Methods or consent of Graduate Program Director or Department Head

This course will require students to produce a literature review regarding an approved topic related to emergency management/homeland security. The literature review will be developed into a research proposal or term paper. The topic and design is developed with the approval of a supervising professor.

Note: May be repeated for credit.

**EMHS 6943: Master's Thesis**

Prerequisites: EMHS 6103 Research Design and Methods, 6123, and EMHS 6933 Research I, or consent of instructor.

Students will submit their completed formal master's thesis and successfully complete their oral defense of their master's thesis.

Note: May be repeated for credit.