

DISASTER MANAGEMENT

MINOR



OVERVIEW

What do earthquakes, hurricanes, floods, wildfires, building collapses, hazardous material incidents, pandemics, and terrorist attacks have in common?

Consider the social impacts of terrorism, or the environmental consequences associated with oil spills. The economic disruptions caused by hurricanes, wildfires, and global pandemics are significant and reach well beyond local, state, and national boundaries. In fact, disasters commonly disrupt the economy, the operation of businesses, infrastructure systems, and government services. Regrettably, they may also result in loss of life, and damage to property and the environment.

Experts predict that the frequency of extreme events and their costs will continue to climb. To help confront this challenge, the Disaster Management concentration at Eastern Kentucky University provides students an opportunity to study disaster phenomena and formulate 21st century mitigation, preparedness, response, and recovery strategies. Courses offered in support of this concentration provide applied and experiential learning environments in the form of disaster simulations and exercises, and reinforce many professional skills, such as risk and geospatial analysis, and planning associated with disaster resilience.

CAREER OPPORTUNITIES

State & Local Government

Emergency Management
Fire Service
Homeland Security
Law Enforcement
Public Health

Private Sector

Healthcare
News Media
Retail
Security Operations
Utility Providers

Federal Government

Federal Emergency
Management Agency
Centers for Disease Control
and Prevention
U.S. Forest Service
U.S. Military Services

Nonprofit Org. Active in Disasters

American Red Cross
Americares
The Salvation Army

DISASTER MANAGEMENT

Minor Requirements

18 Credit Hours

Required

9 Credit Hours (Three Courses)

HLS 260 Disaster Preparedness & Response

HLS 461 Disaster Resilience

HLS 491 Disaster Planning & Exercises

Electives

9 Credit Hours (Three Courses)

HLS 349 Cooperative Study/Internship

HLS 391 Risk Analysis

HLS 445 Field Experience

HLS 455 Independent Study

HLS 465 Unconventional Threats

GEO 325 Environmental Land Use Planning

GEO 353 Geographic Information Systems

GEO 453 Adv. Geographic Information Systems

GEO 456 Remote Sensing

Undergraduate Courses

HLS 260 - Disaster Preparedness & Response

Examines disaster preparedness and response context, concepts, theories, principles, programs and requirements. Students apply course concepts using case studies and real-world scenarios.

HLS 391 - Risk Analysis

History and process of vulnerability and risk assessment (VRA) as it relates to the protection of critical assets and infrastructure. Instruction in common VRA techniques used in both the public and private sectors.

HLS 461 - Disaster Resilience

Concepts, theories, principles, programs, and requirements of pre- and post-disaster hazard mitigation; governmental programs, planning and practice; hazard and threat modeling and analysis; team building; case studies; project development.

HLS 465 - Unconventional Threats & Responses

This course addresses concepts, theories, laws and authorities, principles, programs and requirements associated with unconventional threats to our nation that most likely would result in mass casualties, and pose large-scale responses and cascading threats.

HLS 491 - Disaster Planning & Exercises

Emergency planning requirements, methods, and applications for all levels of government and businesses, including hazard mitigation and emergency operations planning.

GEO 353 - Geographic Information Systems

Introduction to GIS principles, methods, operations, mapping, and applications. Topics include spatial data, databases, GIS analysis, models, site suitability, environmental and social applications, and more.

GEO 453 - Advanced Geographic Information Systems

Advanced concepts, operations, and applications of raster and vector GIS. Spatial analysis using scanning, imagery, GPS, global data sets, and derived data for natural and social applications. Use of standards, metadata, open GIS, and other advances.

GEO 456 - Remote Sensing

Principles, data sources, acquisition, interpretation, analysis, and application of geographic imagery, including maps, air photos, shuttle photography, and satellite digital data. Hands-on emphasis using ERDAS software.

* Additional courses at EKU may support disaster management and meet elective requirements.



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