

# Homeland Security and Emergency Management

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Course Learning Outcomes are measurable statements that are used to identify the specific knowledge and skills that a student should have at the end of a course.

## HSEM 1105

L1- Students will demonstrate knowledge of homeland security and emergency management disciplines and foundational policy directives.

L2- Students will examine the efficacy of existing homeland security and emergency management policies, practices, and programs.

L3- Students will conduct research and analyze cybersecurity threats.

L4- Students will work collaboratively in teams to analyze terrorist groups.

L5- Students will apply critical thinking and foresight to identify and analyze future threats and core capabilities for the homeland security and emergency management enterprise.

## HSEM 1125

L1- Students will gain through self-assessment questionnaires an awareness of their own leadership philosophy, traits, skills, and behaviors.

L2- Students will gain through real-world observation exercises an understanding of the fundamental ways leadership is practiced in on-going organizations.

L3- Students will gain through reflection and action activities an understanding and appreciation for the unique dimensions of their own leadership style.

## HSEM 1130

L1- Students will identify and describe different types of terrorism.

L2- Students will explain ideologies behind domestic and international terrorist groups.

L3- Students will develop a deeper understanding of terrorism and its impacts to emergency management and homeland security.

L4- Students will examine the tactics, techniques, and procedures (TTPs) of terrorist groups.

L5- Students will explore the links between criminal and terrorist groups.

## HSEM 1160

L1- Students will demonstrate knowledge of the National Incident Management System and Command Center Operations.

L2- Students will demonstrate knowledge of Emergency Support Functions and Community Lifelines for disaster assessments.

L3- Students will apply systems thinking to the assessment of resources needed in a disaster and creating the necessary collaborations proactively.

L4- Students will demonstrate knowledge of the continuity of operations and the assessment of essential functions for various kinds of jurisdictions.

## HSEM 2210

L1- Students will explain how a comprehensive exercise program is used to improve the four phases of emergency management.

L2- Students will describe and apply the eight exercise design steps.

L3- Students will describe the foundation for an exercise, including organizing the exercise planning team, scheduling planning meetings, and exercise planning considerations.

L4- Students will design and develop a tabletop exercise in accordance with current exercise development strategies (e.g., FEMA, HSEEP).

L5- Students will identify the skills necessary to conduct discussion-based and operations-based exercises.

L6- Students will define the roles and responsibilities of exercise control and simulation staff.

L7- Students will identify the key components of a systematic exercise evaluation process.

## HSEM 2260

L1- Students will identify doctrine and guidance for emergency planning. Students will indicate the relationship between preparedness and planning.

L2- Students will work collaboratively and demonstrate the ability to review and provide meaningful feedback within the strategic planning process.

L3- Students will identify the purpose and components of an emergency operations plan.

L4- Students will identify the steps in the planning process.

L5- Students will determine the status of your jurisdictional emergency planning.

## HSEM 2264

L1- Students will demonstrate knowledge of hazard mitigation efforts.

L2- Students will demonstrate knowledge of building a resilient community by applying mitigation efforts.

L3- Students will conduct research and analyze disaster risk reduction vs. mitigation efforts and include benefit-cost analysis of natural hazard mitigation.

L4- Students will take a midterm exam in Week 4.

L5- Students will conduct research and analyze climate change and sustainable hazard mitigation efforts and be able to apply them in Week 8 final paper.

## HSEM 2270

L1- Students will understand the mechanics of standing up and operating an Emergency Operations Center (EOC) and its impacts on disaster response and operations.

L2- Students will understand how planning, preparedness, community relationships influence disaster response and operations.

L3- Students will describe the National Preparedness System, Incident Command System, National Incident Management System, and the National Response Framework (NRF) and how these systems are implemented at the local and state levels of Emergency Management.

L4- Students will evaluate how federal agencies interact and impact emergency management response and operations at the jurisdictional, tribal, and state levels.

L5- Students will have a base knowledge of hazardous materials and their effect on response.

L6- Students will understand the initial impacts (and devolution) of response and operations; such as how staffing, training, briefings, emergency support functions, and public information play a substantial role in effective emergency management at the local and state levels.

## HSEM 3301

L1- Explain the principles of the whole community approach and evaluate strategies for enhancing collaboration among federal, state, local, tribal, territorial, nonprofit, and private-sector partners.

L2- Analyze emerging threats and intelligence processes that influence homeland security and emergency management decision-making at all levels of government.

L3- Assess the vulnerabilities of critical infrastructure sectors and cybersecurity systems in order to protect against and respond to disruptions.

L4- Evaluate the roles and responsibilities of local public safety agencies in preparing for, mitigating, and responding to disasters and homeland security incidents.

L5- Apply crisis management and coordination frameworks to real-world scenarios, emphasizing interagency communication and unity of effort.

L6- Examine disaster response challenges, including surge capacity, resource allocation, and interdependencies with other infrastructure sectors.

HSEM 3310

L1- Describe the critical infrastructure sectors, their organization, and operation.

L2- Evaluate critical infrastructure issues associated with the field of homeland security and emergency management.

L3- Implement network theory and its application to critical infrastructure protection and resiliency.

L4- Describe the purpose and structure of the National Infrastructure Protection Plan, the National Prevention Framework, and the National Cyber Security Framework.

L5- Assess and use risk and threat assessment techniques for critical infrastructure.

L6- Identify the different homeland security stakeholders and their interests.

L7- Apply specific techniques to elicit cooperation and collaboration to advance homeland security goals.

HSEM 3315

L1- Students will understand the foundations and application of risk and probability analysis, especially as they related to homeland security.

L2- Students will understand the meaning and application of the terms risk, threat, vulnerability and consequence and their use in the measurement of risk.

L3- Students will study, explore, and utilize risk assessment techniques and methodologies.

L4- Students will understand the use of and apply network models and fault trees across several sectors of the National Infrastructure Protection Plan.

L5- Students will develop a written risk assessment of infrastructure in a National Infrastructure Protection Plan sector and justify the application of resources to reduce risk based on the techniques discussed in class.

HSEM 3320

L1- Identify emergent and critical technologies that are currently enabling or inhibiting technologies in the homeland security and emergency management ecosystems.

L2- Explore a variety of emerging and critical technologies and identify the interconnectedness to platforms and services related to public security.

L3- Examine various smart systems, disruptive technologies and sensor networks that optimize information sharing for the security ecosystems and the public's resilience.

HSEM 3325

L1- Evaluate evidence, its sources, meanings and intentions.

L2- Articulate ideas and arguments effectively in oral and written formats.

L3- Illustrate the use and limitations of knowledge and theory in the field to professional practice.

L4- Critically evaluate the rigor and validity of information and academic materials.

L5- Recognize gaps in professional knowledge and seek out information to address deficiencies.

HSEM 3326

L1- Examine key principles of data analysis in the context of homeland security and emergency management.

L2- Develop a data collection plan and coding scheme.

L3- Apply basic statistical techniques to analyze data, compare information, identify patterns, and predict outcomes.

L4- Use basic data visualization or geospatial tools to present information and inform decision-makers for homeland security or emergency management scenarios.

L5- Critique the benefits and limitations of big data sources and their relevance to emergency response and homeland security.

L6- Design data-driven policies based on data collection and analytical models to inform stakeholders and senior officials.

HSEM 3330

L1- Identify the fundamental psychological and social theories that serve as a foundational framework to understand the phenomena of terrorism.

L2- Explore the human psychological and sociological principles of heuristics and biases in examining terrorist decision-making.

L3- Examine metacognitive thinking, critical thinking and sociological frameworks in order to understand the context of radicalization.

L4- Examine the social networked nature of terrorist groups and the social contexts of Lone Wolf and Suicide Terrorism.

HSEM 3335

L1- Students will acquire skills and sufficient understanding of how to detect social engineering tactics and analyze cybersecurity breaches.

L2- Students will develop an understanding of the importance and impact of securing cyberspace at the personal, corporate, and governmental levels.

L3- Students will analyze and evaluate the domestic and global roles and responsibilities in security cyberspace.

HSEM 3365

L1- Students will determine areas in which volunteers can assist with disaster preparedness and operations and describe the type(s) of services they can provide.

L2- Students will demonstrate the criticality of integrating volunteers by creating a model of an operations structure.

L3- Students will examine the critical role volunteer services play on the finances of emergency operations.

L4- Students will analyze the dynamics of working with nontraditional partners and organizations with specialized skills.

L5- Students will identify challenges and solutions in receiving international humanitarian aid.

L6- Students will write a volunteer and donations management plan.

HSEM 4405

L1- Analyze formal communication interactions using fundamental models of communication.

L2- Create a complete agency crisis communication plan.

L3- Use message mapping tools to develop and deliver professional public safety messaging.

L4- Create strategies for engaging partners, stakeholders, and vulnerable populations in critical safety communications.

L5- Produce critical public safety content for digital social media platforms and legacy media outlets.

L6- Demonstrate public information skills for interfacing with journalists and legacy media.

HSEM 4410

L1- Develop specific skills related to policy and politics for Emergency Management and Homeland Security practitioners.

L2- Explain the role of Emergency Management in the development, implementation and analysis of policy.

L3- Analyze the potential implications of Emergency Management law and policy on various groups and entities.

L4- Apply governmental policy theories and functions of Emergency Management and Homeland Security to assessment and creation of operational policy.

HSEM 4415

L1- Evaluate local, state, federal and private sector strategic plans to identify common strategic planning components.

L2- Apply the principles of professionalism by aligning strategic plans, budgets, programs, projects, and tactics.

L3- Work collaboratively and demonstrate the ability to review and provide meaningful feedback within the strategic planning process.

L4- Compare and apply the principles of line-item budgeting and zero-based.

L5- Students will demonstrate knowledge of project management principles and create a project plan tied to a program budget.

L6- Students will demonstrate knowledge of homeland security grants and develop a grant investment justification.

#### HSEM 4425

L1- Identify and analyze the core capabilities necessary to protect the health and safety of communities.

L2- Describe the interdependencies of community lifeline systems and how emergency management frameworks are designed to support and coordinate restoration activities.

L3- Analyze the potential for a physical or cyber-attack on a critical infrastructure asset or system and how to protect those assets and systems with a multilayered security approach.

L4- Develop and prioritize a course of action to prepare a business for a disaster, crisis, or disruption.

L5- Create a Business Impact Analysis Report for a critical infrastructure related business.

#### HSEM 4454

L1- Analyze the intelligence methodology, discussing the intelligence cycle and contrasting the benefits and drawbacks of intelligence collection platforms.

L2- Examine the history, current makeup, and roles of member agencies of the national intelligence community.

L3- Create an intelligence product using modern rules and formatting common to the intelligence community.

L4- Examine the past, present, and future terrorist threats and discuss the policy implications to the intelligence community in conducting and supporting counter-terrorism operations.

#### HSEM 4464

L1- Apply disaster declaration principles, incorporating damage assessments and local, state, and federal procedures.

L2- Prioritize damages, emergency repairs, and restoration missions.

L3- Demonstrate the transition from response operations to recovery operations.

L4- Describe and differentiate national recovery assistance programs.

L5- Create a disaster recovery system briefing and policy recommendation for elected officials.

#### HSEM 4490

L1- Students will complete an internship with an organization with a nexus to the homeland security and emergency management enterprise.

L2- Students will understand how to pursue career opportunities through researching internship opportunities, networking, job searching, interviewing, and selecting an appropriate internship.

L3- Students will demonstrate responsible work habits and form positive attitudes toward employment in the field of homeland security and emergency management.

L4- Students will demonstrate effective project management, communication, and interpersonal relational skills.

L5- Students will develop leadership traits, such as showing initiative, integrity, confidentiality, and responsibility, along with a strong work ethic.

L6- Students will develop a fuller awareness of and appreciation for working with others in a diverse workforce environment.

L7- Students will acquire new job-related skills and knowledge, which can be applied to the field of homeland security and emergency management.

#### HSEM 4491

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L6- Students will develop a fuller awareness of and appreciation for working with others in a diverse workforce environment.

L7- Students will acquire new job-related skills and knowledge, which can be applied to the field of homeland security and emergency management.

#### HSEM 4494

L1- Complete a senior capstone project with an organizational sponsor to showcase their professional knowledge and project management knowledge, skills, and abilities.

L2- Conduct research and analyze a real-world problem in the homeland security and emergency management enterprise.

L3- Develop criteria, analyze potential options, and propose a multilayered strategy to solve the root problem.

L4- Develop a project implementation plan and proposed timeline and budget for their proposed solution.

L5- Develop and publish a homeland security and emergency management-based proposal, seeking approval to implement their recommendations with their selected organizational sponsor.

#### HSEM 4540

L1- Describe the public health consequences of disasters.

L2- Evaluate public health emergency systems and capabilities.

L3- Identify and evaluate strengths and gaps in health and medical disaster management capabilities.

L4- Describe the policy, legal and ethical frameworks and strategies related to meeting the access and functional needs of the whole community during disasters.

#### HSEM 4570

L1- Explain foundational concepts and frameworks relevant to homeland security leadership.

L2- Analyze case studies and current events for ethical implications and leadership challenges.

L3- Apply leadership theories and models to a variety of homeland security use cases.

L4- Evaluate the efficacy of various leadership models in different homeland security contexts.

L5- Synthesize knowledge around homeland security leadership challenges to develop strategies and plans of action.

#### HSEM 4580

L1- Defend the necessity of accessibility and inclusivity in emergency planning.

L2- Identify a variety of legal issues pertaining to access to government services in emergencies.

L3- Recognize the varying social, psychological, emotional, and economic impacts of disaster incidents on all populations.

L4- Identify the modifications to emergency planning and services to be made in order to meet the needs of all population.