HOMELAND SECURITY AND EMERGENCY MANAGEMENT (HSEM)

College of Business and Security Management
Homeland Security & Emergency Management (https://www.uaf.edu/cbsm/programs/hsem/)
907-474-7461

HSEM F110 Personal Preparedness (s) 3 Credits
Offered As Demand Warrants
Students will gain the ability to recognize pending crises and the skills to successfully manage events, using preparedness theory. Students will be able to utilize practical applications should a disaster occur. They will then take all of the preparedness skills they have learned and develop a Personal Preparedness Plan.
Lecture + Lab + Other: 3 + 0 + 0

HSEM F120 Introduction to Emergency Management 3 Credits
Offered Fall and Spring
This course introduces students to vocabulary and core components of emergency management. Students examine the ever-growing and changing field, leadership and management roles and responsibilities, and the complexity of disruptive events such as emergencies and disasters.
Lecture + Lab + Other: 3 + 0 + 0

HSEM F121 Introduction to Homeland Security 3 Credits
Offered Fall and Spring
This course introduces students to the vocabulary and components of homeland security. Students examine the importance of the roles and responsibilities of agencies associated with the field, laws affecting homeland security, and the most critical threats within the field.
Lecture + Lab + Other: 3 + 0 + 0

HSEM F223 Terrorism: A Global Threat 3 Credits
Offered As Demand Warrants
This course will investigate the historical origins of global terrorism, the major contemporary terrorist organizations (foreign and domestic), their ideological motivations and their methodologies for employing terror. It will also explore the threats posed to the United States and the West in terms of national security and the economy. An in-depth examination and evaluation of several case studies of terrorist acts will be made. The primary focus of this course will be on terrorist organizations and their acts of terror.
Prerequisites: HSEM F120 or HSEM F121.
Lecture + Lab + Other: 3 + 0 + 0

HSEM F225 Intelligence Analysis and Security Management 3 Credits
Offered As Demand Warrants
This course will examine the history of intelligence gathering and espionage in the United States. A succinct study and comparative analysis of intelligence collection methods of other nations will also be made. An in-depth study of key U.S. intelligence agencies, their collection methodologies, and their effect upon national security will be examined.
Prerequisites: HSEM F120 or HSEM F121.
Lecture + Lab + Other: 3 + 0 + 0

HSEM F227 Transportation and Border Security 3 Credits
Offered As Demand Warrants
This course provides an overview of modern border and transportation security challenges, as well as different methods employed to address these challenges. The time period from post 9-11 to the present is covered. Topics explored include those associated with border and transportation infrastructure security; seaports, ships, aircraft, airports, trains, train stations, trucks, highways, bridges, rail lines, pipelines and buses. The course will include an exploration of technological solutions employed to enhance security of borders and transportation systems. Discussions will include such topics as the legal, economic, political and cultural concerns and impacts associated with transportation and border security.
Prerequisites: HSEM F120 or HSEM F121.
Lecture + Lab + Other: 3 + 0 + 0

HSEM F231 The Threat of Weapons of Mass Destruction 3 Credits
Offered As Demand Warrants
In a post 9/11 environment, concerns surrounding the potential use of weapons of mass destruction have been an ever increasing concern. This course is intended to serve as an introduction to the study and history of weapons of mass destruction as a tool of terrorism.
Prerequisites: WRTG F111X.
Lecture + Lab + Other: 3 + 0 + 0

HSEM F233 Critical Infrastructure Protection 3 Credits
Offered As Demand Warrants
This course provides tools and techniques to students who desire to increase their knowledge, skills and abilities in the protection of critical infrastructure elements. The course focuses on the predominant infrastructure sectors such as water, energy, SCADA, power, telecommunications, internet and cyberinfrastructure.
Prerequisites: HSEM F120 or HSEM F121.
Lecture + Lab + Other: 3 + 0 + 0

HSEM F271 Fiscal Management for Emergency Management Operations 3 Credits
Offered Fall, Spring and Summer
Students will learn about the basic accounting and financial requirements for public organizations such as fire, police and similar functions of local governments. The major topics covered include: understanding financial reports, budgeting preparation, and grants and contracts administration.
Prerequisites: Sophomore standing or higher; placement, concurrent enrollment or completion of MATH at the F100-level or above.
Cross-listed with ACCT F271.
Lecture + Lab + Other: 3 + 0 + 0
HSEM F301  Principles of Emergency Management and Homeland Security  
3 Credits  
Offered Fall, Spring and Summer  
The course provides a foundational perspective as to how our present federal emergency management and homeland security structure emerged with emphasis placed on the characteristics, functions, and resources of its integrated systems. This course additionally focuses on the principles and practices of homeland security and emergency management at the local, state and federal levels.  
Lecture + Lab + Other: 3 + 0 + 0

HSEM F320  Survey of Emergency Management in Rural Alaska  
3 Credits  
Offered As Demand Warrants  
This course explores the basic emergency and disaster management principles and policies that apply to rural communities in Alaska, including the history of emergency management and the disaster response and recovery relationships between rural Alaska communities, the State of Alaska, and the federal government.  
Prerequisites: HSEM F301.  
Lecture + Lab + Other: 3 + 0 + 0

HSEM F402  Incident Command for Emergency Medical Services  
3 Credits  
Offered As Demand Warrants  
Topics explored examine scenarios requiring responders to structure their EMS resources within the guidance of the National Incident Management System (NIMS) and Incident Command System (ICS). Students will practice utilizing the ICS with public safety responders and demonstrate the implementation of EMS components in an ICS system at incidents.  
Prerequisites: HSEM F301.  
Lecture + Lab + Other: 3 + 0 + 0

HSEM F403  Public Health in Emergencies  
3 Credits  
Offered As Demand Warrants  
Students will focus on the role public health plays in disaster and emergency management. Topics include public health's role in fostering community resilience, medical intelligence and disease monitoring, behavioral health recovery, ethical considerations, and planning for vulnerable and special needs populations.  
Prerequisites: HSEM F301.  
Lecture + Lab + Other: 3 + 0 + 0

HSEM F404  Public Safety Instruction  
3 Credits  
Offered As Demand Warrants  
This course provides the student with the tools to help foster public education in their community based on the different resources available to citizens. These resources often include programs at the federal, state, and local governments. Planning for the public safety community, including diverse learning populations, will be also discussed.  
Prerequisites: HSEM F301.  
Lecture + Lab + Other: 3 + 0 + 0

HSEM F405  Introduction to Emergency Management Exercise Design  
3 Credits  
Offered Fall  
This course examines exercise design, evaluation, and development. The course will focus on developing the knowledge and skills that are imperative to implementing a Homeland Security Exercise Evaluation Program (HSEEP) compliant exercise. The class will also design and develop a tabletop exercise to be executed as a class project at the end of the semester. Lastly, the course will emphasize the importance of incorporating emergency exercise planning to effectively prepare and respond to disasters of all types and magnitudes.  
Prerequisites: WRTG F211X, WRTG F212X, WRTG F213X or WRTG F214X; HSEM F301.  
Lecture + Lab + Other: 3 + 0 + 0

HSEM F406  Comparative Homeland Security  
3 Credits  
Offered Spring  
This course aids students in developing an understanding of the homeland security and counterterrorism methods utilized by other countries. The course examines different countries and compares the policies and strategies they have developed.  
Prerequisites: WRTG F211X, WRTG F212X, WRTG F213X or WRTG F214X; HSEM F301.  
Lecture + Lab + Other: 3 + 0 + 0

HSEM F407  Comparative Emergency Management  
3 Credits  
Offered Spring  
This course will focus on examining regional and global responses to various types of disasters. Topics covered will include the importance of regional collaboration between nations in disaster preparedness, mitigation, response, and recovery. Additionally, the roles that regional partnerships play in disaster mitigation will be examined, as well as issues concerning the requirements to sustain collaborative efforts between nations in the 21st century.  
Prerequisites: WRTG F211X, WRTG F212X, WRTG F213X or WRTG F214X; HSEM F301.  
Lecture + Lab + Other: 3 + 0 + 0

HSEM F408  Homeland Defense and Security  
3 Credits  
Offered Fall  
The purpose of this course is to provide students with an overview of the categories of military operations (other than war) that require homeland defense and security. A comparative approach will be utilized to compare the U.S. with other countries which use their respective militaries for small scale contingencies both internal and external to their borders.  
Prerequisites: WRTG F211X, WRTG F212X, WRTG F213X or WRTG F214X; HSEM F301.  
Lecture + Lab + Other: 3 + 0 + 0

HSEM F412  Emergency Planning and Preparedness  
3 Credits  
Offered Fall and Spring  
This course will examine the concepts of developing and writing an emergency operations plan and the elements necessary for inclusion in the plan (all-hazards risk analysis). Students will transition through the process of identifying hazards, creating plans and developing a program which specifically addresses planning and preparedness objectives.  
Prerequisites: HSEM F301.  
Lecture + Lab + Other: 3 + 0 + 0
HSEM F415  Cybersecurity in the 21st Century: Technology and Ethics
3 Credits
Offered As Demand Warrants
This course will provide a theoretical and practical overview of the ethics of cybersecurity as a military domain, cybersecurity as a protective requirement in industry and non-profits, and other contemporary issues. The course addresses a range of topics to provide the student with a solid overall theoretical foundation of cybersecurity issues.
Prerequisites: HSEM F301, AIS F310 or AIS F316.
Lecture + Lab + Other: 3 + 0 + 0

HSEM F416  Cybersecurity Management
3 Credits
Offered As Demand Warrants
Develop an understanding of the concepts, trends and strategies associated with cybersecurity and managing risk. This course will enable managers to understand risks associated with information technology, develop compensating controls or mitigations and implement them. Planning process, mitigation strategies, detection and recovery associated with cybersecurity and risk management are covered.
Prerequisite: HSEM F301, AIS F310 or AIS F316.
Lecture + Lab + Other: 3 + 0 + 0

HSEM F417  Cybersecurity Resiliency
3 Credits
Offered As Demand Warrants
Cybersecurity resiliency focuses on the challenges faced by organizational leadership resisting, responding, and recovering from cyber-attacks and other events which adversely impact business-critical data. Topics further explore the dynamics of building and maintaining a cyber resilient organization.
Prerequisites: HSEM F301, AIS F310 or AIS F316.
Lecture + Lab + Other: 3 + 0 + 0

HSEM F418  Cybercrime, Fraud and Law
3 Credits
Offered As Demand Warrants
This course introduces cybercrime, including the history of cybercrime in the U.S. and the resulting law and regulatory environment which has resulted. Techniques and resources for investigating cyber incidents will be explored, to include methods used to commit malicious or criminal acts.
Prerequisites: HSEM F301, AIS F310 or AIS F316.
Lecture + Lab + Other: 3 + 0 + 0

HSEM F423  Disaster Response Operations and Management
3 Credits
Offered Fall and Spring
Topics explored within this course creates an understanding of the principles that promote effective disaster response and recovery operations. Students examine the nature of disasters, roles and responsibilities of various actors, and various problems associated with response and recovery operations.
Prerequisites: HSEM F301.
Lecture + Lab + Other: 3 + 0 + 0

HSEM F434  All-hazards Risk Analysis
3 Credits
Offered Fall and Spring
This course covers risk analysis and assessment from an All-Hazards emergency management and homeland security perspective. Students will explore vulnerability and risk assessment methodologies for natural, man-made as well as technological disasters/events and develop an understanding of the processes used in identifying and quantifying vulnerabilities in a system (e.g., a physical facility such as a chemical plant, or an infrastructure component such as a power plant).
Prerequisites: HSEM F301.
Lecture + Lab + Other: 3 + 0 + 0

HSEM F439  Supervising Emergency Services
3 Credits
Offered Spring
Issues relating to the supervision of firefighters and emergency environment will be explored. Topics include federal laws, labor relations, coaching, counseling and disciplinary action, managing conflict, motivation, stress, time management, and group dynamics. The course aligns with the National Fire Academy Fire and Emergency Services Higher Education model core curriculum.
Prerequisites: HSEM F301.
Lecture + Lab + Other: 3 + 0 + 0

HSEM F440  Advanced Principles of Fire Service Administration
3 Credits
Offered Fall
This course examines the emergency services field. Topics include community risk management, strategic planning, labor relations, leadership, visioning, managing change, politics, organizational culture, and data analysis. The course aligns with the United States Fire Administration (USFA) Fire and Emergency Services Higher Education Curriculum.
Prerequisites: HSEM F301.
Lecture + Lab + Other: 0 + 0 + 0

HSEM F445  Business Continuity and Crisis Management
3 Credits
Offered Fall, Spring and Summer
Topics include comprehensive emergency management, public and private roles and partnerships for emergency and crisis management, the risk management process, strategic crisis management, contingency planning, training and exercises, emergency response, business continuity and recovery, the role of the crisis management team and crisis communication.
Prerequisites: WRTG F111X; WRTG F211X, WRTG F212X, WRTG F213X or WRTG F214X; COJO F131X or COJO F141X; HSEM F301 or AIS F310 or AIS F316 or BA F360.
Lecture + Lab + Other: 3 + 0 + 0

HSEM F452  Internship in Emergency Management
3 Credits
Offered As Demand Warrants
A supervised practical work experience to enable students to apply their coursework in a fire department or closely related field of emergency services. Admission dependent upon approved sponsorship arrangements.
Prerequisites: WRTG F111X; WRTG F211X, WRTG F212X, WRTG F213X or WRTG F214X; B E M degree major; upper-division standing.
Recommended: Four semesters of bachelor core; business administration courses.
Lecture + Lab + Other: 0 + 6 + 0
HSEM F456  Leadership in Dangerous Contexts
3 Credits
Offered Fall, Spring and Summer
This course focuses on the challenges faced by leaders during crisis and emergency circumstances. During emergency circumstances, leaders must be able to influence and motivate others. The course explores leadership and followership, crisis decision making, fear and emotion, organizational management, and community planning in emergency and homeland security professional are examined.
Prerequisites: HSEM F301; WRTG F211X, WRTG F212X, WRTG F213X or WRTG F214X.
Cross-listed with LEAD F456.
Lecture + Lab + Other: 3 + 0 + 0

HSEM F461  Human Security in Alaska (an)
3 Credits
Offered As Demand Warrants
This course explores the concept of human security, and takes an individual-centered approach to security, unlike the traditional state-centric approach. Topics covered include economic security, food security, health security, personal safety, community security, environmental security, and political security. Students will examine Alaska Native life through the human security framework.
Prerequisites: WRTG F111X, WRTG F211X, WRTG F212X, WRTG F213X or WRTG F214X; COJO F121X, COJO F131X or COJO F141X; junior standing.
Lecture + Lab + Other: 3 + 0 + 0

HSEM F467  Current Topics in Public Safety
3 Credits
Offered As Demand Warrants
This course examines current public safety topics with regards to relevant trends and practices. Topics of interest may include militarization of the police, mass shootings, police-community partnerships, technology, media relations, and transparency.
Prerequisites: HSEM F301.
Lecture + Lab + Other: 3 + 0 + 0

HSEM F601  Legal Aspects of Homeland Security and Emergency Management
3 Credits
Offered As Demand Warrants
An in depth examination of the applicable statutory, regulatory and policy aspects regulating the fields of security and disaster management will be undertaken. Topics include relevant statutes such as the Stafford Act, the Alaska Native preference Act, and those relating to governmental and individual liability/defenses while performing.
Prerequisites: Must be admitted to the MSDM program; or permission of the MSDM program director.
Lecture + Lab + Other: 3 + 0 + 0

HSEM F603  Disaster Management Policy
3 Credits
Offered Fall and Spring
This course provides context for and coverage of disaster management and homeland security. The course explores how social science research can be applied to policy development and everyday practice. Students will discuss and review public policy, organizational management, and leadership issues faced by future practitioners and leaders in the field.
Prerequisites: Must be admitted to MSDM program; or permission of the MSDM program director.
Lecture + Lab + Other: 3 + 0 + 0

HSEM F605  Community Planning in Emergency Management
3 Credits
Offered As Demand Warrants
Students will explore how community and urban planning principles affect the homeland security and emergency management enterprise with both traditional emergency manager and urban/community planner in mind to provide a wider perspective as to the considerations of urban and community planning.
Prerequisites: Must be admitted to the MSDM program; or permission of the MSDM program director.
Lecture + Lab + Other: 3 + 0 + 0

HSEM F607  Vulnerability and Protection
3 Credits
Offered Spring
This course examines security as a discipline and responsibility. The key topics include protection of assets, management principles and concepts, the relationship of security to vulnerability, control of access, terrorist attacks, critical infrastructure protection, insider threats, and workplace violence.
Prerequisites: Must be admitted to the MSDM program; or permission of the MSDM program director.
Lecture + Lab + Other: 3 + 0 + 0

HSEM F609  Human Security
3 Credits
Offered Fall
Students will explore the major elements of human security and examine traditional security influencers, such as public and mental health, climate change, and population and pathogen migration. The course focuses on the holistic approach of people as the foundation, in terms of cause, effect, and change agents.
Prerequisites: Must be admitted to the MSDM program; or permission of the MSDM program director.
Lecture + Lab + Other: 3 + 0 + 0

HSEM F611  International Disaster Management
3 Credits
Offered Fall and Spring
This course examines international disaster management in relation to historical, socio-economic, risk, hazard, response, preparedness and recovery aspects for international disasters. Special emphasis on the organizations and agencies playing a prominent role in international disaster management will be explored as well.
Prerequisites: Must be admitted to the MSDM program; or permission of the MSDM program director.
Lecture + Lab + Other: 3 + 0 + 0

HSEM F621  Circumpolar Competition-Arctic Diplomacy and Defense
3 Credits
This course provides an understanding on fundamentals involving global competition and how it relates to the Arctic. As a result, an understanding of Arctic Security can be developed through studies defined by the primary security management actors for global issues: diplomatic and defense officials.
Prerequisites: Graduate standing or as approved by the program director.
Lecture + Lab + Other: 3 + 0 + 0
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<td>Arctic Strategies and Operations</td>
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<td>HSEM F632</td>
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<td>HSEM F641</td>
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<td>HSEM F645</td>
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The purpose of this course is to provide an understanding of national policies of the Arctic states as well as select non-Arctic states. Understanding Arctic national interests and strategies help inform defense authorities of critical issues required for diplomacy and security planning, regional dynamics, and complex international influences.

**Prerequisites:** Graduate standing or as approved by program director.

**Lecture + Lab + Other:** 3 + 0 + 0

This course is designed to cover key components of project management fundamentals with emphasis on the project life cycle, project definition, project schedule and cost management, human resource allocation and the challenges facing project managers in every industry.

**Prerequisites:** Must be admitted to the MSDM or MBA program; or permission of MSDM or MBA program director.

Offered As Demand Warrants

Overview of enterprise security, privacy and information security assessment and management, and cybersecurity. Concentration on tangible and intangible costs of risks and examination of information assurance and security risk assessment concepts. Students will understand how to assess information security risks and use that information to develop potential solutions.

**Prerequisites:** Graduate standing in the MSDM or MBA program or certificates, or as approved by program director.

Offered As Demand Warrants

An in-depth review of crisis management to include the different crises an organization may face. The importance of an ethical and strategic response, developing a solid crisis management plan, strong crisis communication, and developing a crisis management team will be discussed.

**Prerequisites:** Graduate standing in the MSDM, MBA or certificate program.

Offered As Demand Warrants

In-depth analysis of business continuity to include risk analysis and plan assessment. Overview of potential risks from more than a natural disaster standpoint. The correct way to use risk analyzes while developing a continuity plan will be discussed. The importance of exercising and maintaining a plan will also be reviewed.

**Prerequisites:** Graduate standing in the MSDM, MBA or certificate program.

Offered As Demand Warrants

As part of the business continuity cycle, audits of the business continuity system must be conducted. Topics for this class include: What an audit is, the framework for conducting, how to conduct an audit, the importance of auditing, and what and how the final product should be used.

**Prerequisites:** Graduate standing in the MSDM or MBA or certificate program.

Offered As Demand Warrants

The course explores the nature of the critical infrastructure, the possible threats that exist or might exist and how they can be countered. Through case studies, we will examine the varied serious potential threats out there to the numerous critical infrastructures we have identified.

**Prerequisites:** Graduate standing in the MSDM or MBA program or certificates, or as approved by program director.

Offered As Demand Warrants

This course is focused on threats, vulnerabilities, patch management, incident response, and security operations to identify and protect against internal and external threats. Various security threats will be covered including hacker attacks, e-mail borne viruses, backdoor problems, and internal sabotage. Cybercrime, cybersecurity, and global information security will be discussed.

**Prerequisites:** Graduate standing in the MSDM or MBA programs, certificates, or as approved by program director.

Offered As Demand Warrants

Focus on the understanding and application of strategic leadership. We will discuss the process by which leaders make decisions at the strategic level. We will use historical examples of strategic leaders and assess the success– and failure– of strategic leadership under the challenging and catastrophic scenarios.

**Prerequisites:** Graduate standing within the MSDM or MBA programs.

Offered As Demand Warrants
HSEM F665  Strategic Collaboration
3 Credits
Offered Summer
This course is designed to explore the techniques of collaboration and communication and their strategic use in managing contemporary organizations. Students will identify their own communication style and how to deploy it in various managerial situations. Topics will include exploring individual personality type and the effect of type on collaboration.
Prerequisites: Must be admitted to the MSDM or MBA program; or permission of MSDM or MBA program manager.
Cross-listed with MBA F665.
Lecture + Lab + Other: 3 + 0 + 0

HSEM F670  Environmental Security
3 Credits
Offered As Demand Warrants
The course examines environmental and climate related issues as they pertain to areas of policy and decision making, the process of securitization involved, areas of conflict as they connect to people and infrastructure, and how these factors affect security and disaster management planning efforts.
Prerequisites: Graduate Standing within the MSDM program.
Lecture + Lab + Other: 3 + 0 + 0

HSEM F672  Climate Catastrophes: A Case Study Approach
3 Credits
Offered As Demand Warrants
The course examines connections between climate, natural hazards, and security concerns, through security and disaster case studies. We will cover a range of challenges that societies have faced from climate-driven pressures, how those pressures influence security and resilience, and how those lessons apply to security and disaster management efforts.
Lecture + Lab + Other: 6 + 0 + 0

HSEM F673  Models and Scenarios for Disaster Risk Reduction
3 Credits
Offered As Demand Warrants
The course explores how models and scenario planning are used to prepare for current and future hazards. It covers issues of scale (temporal, spatial, and political), uncertainty and extreme events, and how scientific models and tools are used to improve decision-making and reduce risk, primarily focusing on climate hazards.
Lecture + Lab + Other: 6 + 0 + 0

HSEM F690  Security and Disaster Management
3 Credits
Offered Spring
This course serves as the capstone course for the security and disaster management degree. This course should be taken near the end of the students' graduate program. This course will focus on the integration of both security and disaster management in a complex globalized environment. The course will explore touchpoints for public and private partnerships, organizing for effective security and disaster management solutions and the development of effective policies for both the public and private sectors.
Prerequisites: Must be admitted to the MSDM program; or permission of MSDM program director.
Lecture + Lab + Other: 3 + 0 + 0

HSEM F692  Security and Disaster Management Seminar
3 Credits
Offered Summer
This course is designed to bring Homeland Security and emergency management topics into the classroom as necessary. Such topics might include international security, disaster logistics or disaster economics. Additional topics will arise out of current events. This course may be taken 2 times as topics change.
Prerequisites: Must be admitted to the MSDM program; or permission of MSDM program director.
Lecture + Lab + Other: 3 + 0 + 0