

# Homeland Security and Emergency Management (HSEM)

## College of Business and Security Management

Homeland Security & Emergency Management Program (<https://www.uaf.edu/cbsm/programs/hsem.php>)  
907-474-7461

### HSEM F110 Personal Preparedness

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.

**Attributes:** UAF Degree Social Sciences Req

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

**Grading System:** Letter Grades with option of Plus/Minus

### 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

**Grading System:** Letter Grades with option of Plus/Minus

### 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

**Grading System:** Letter Grades with option of Plus/Minus

### HSEM F223 Terrorism: A Global Threat

3 Credits

Offered As Demand Warrants

This course explores global terrorism's history, key terrorist organizations and their ideologies. We'll analyze their terror tactics, impact on U.S. national security and economic implications. Through case studies, we'll examine specific acts and understand these groups' operational methods.

**Prerequisites:** HSEM F120 or HSEM F121 (either may be taken concurrently).

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

**Grading System:** Letter Grades with option of Plus/Minus

### HSEM F225 Intelligence Analysis and Security Management

3 Credits

Offered As Demand Warrants

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 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 (either may be taken concurrently).

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

**Grading System:** Letter Grades with option of Plus/Minus

### HSEM F227 Transportation and Border Security

3 Credits

Offered As Demand Warrants

This course provides a comprehensive overview of modern border and transportation security challenges since post-9/11, covering various topics, including security at seaports, airports, railways and other transport infrastructure. It delves into technological solutions and examines the legal, economic, political and cultural impacts on border and transportation safety.

**Prerequisites:** HSEM F120 or HSEM F121 (either may be taken concurrently).

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

**Grading System:** Letter Grades with option of Plus/Minus

### 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

**Grading System:** Letter Grades with option of Plus/Minus

### 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 (either course may be taken concurrently).

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

**Grading System:** Letter Grades with option of Plus/Minus

### 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

**Grading System:** Letter Grades with option of Plus/Minus

**HSEM F301 Principles of Emergency Management and Homeland Security**

3 Credits

Offered Fall, Spring and Summer

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. 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**Grading System:** Letter Grades with option of Plus/Minus**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:** WRTG F111X.**Lecture + Lab + Other:** 3 + 0 + 0**Grading System:** Letter Grades with option of Plus/Minus**HSEM F401 Incident Command and Emergency Management Systems**

3 Credits

Offered Fall

This course explores key duties, responsibilities and tasks as defined by the National Incident Management System (NIMS) and the National Qualification System (NQS) standard minimum position qualifications of homeland security, emergency management, incident and event personnel who function in as ICS Command, Command and General Staff or Leadership position.

**Prerequisites:** HSEM F301.**Lecture + Lab + Other:** 3 + 0 + 0**Grading System:** Letter Grades with option of Plus/Minus**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**Grading System:** Letter Grades with option of Plus/Minus**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**Grading System:** Letter Grades with option of Plus/Minus**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**Grading System:** Letter Grades with option of Plus/Minus**HSEM F405 Introduction to Emergency Management Exercise Design**

3 Credits

Offered Fall

This course examines exercise design, evaluation, and development. The course focuses on developing the skills that are imperative to implementing a Homeland Security Exercise Evaluation Program (HSEEP) compliant exercise. The course emphasizes the importance of incorporating emergency exercise planning to effectively prepare and respond to all disaster types and magnitudes.

**Prerequisites:** WRTG F211X, WRTG F212X, WRTG F213X or WRTG F214X; HSEM F301.**Lecture + Lab + Other:** 3 + 0 + 0**Grading System:** Letter Grades with option of Plus/Minus**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**Grading System:** Letter Grades with option of Plus/Minus**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**Grading System:** Letter Grades with option of Plus/Minus

**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 smaller 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

**Grading System:** Letter Grades with option of Plus/Minus

**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

**Grading System:** Letter Grades with option of Plus/Minus

**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

**Grading System:** Letter Grades with option of Plus/Minus

**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

**Grading System:** Letter Grades with option of Plus/Minus

**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

**Grading System:** Letter Grades with option of Plus/Minus

**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

**Grading System:** Letter Grades with option of Plus/Minus

**HSEM F423 Disaster Case Studies**

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

**Grading System:** Letter Grades with option of Plus/Minus

**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

**Grading System:** Letter Grades with option of Plus/Minus

**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

**Grading System:** Letter Grades with option of Plus/Minus

**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:** 3 + 0 + 0

**Grading System:** Letter Grades with option of Plus/Minus

**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:** COM F131X or COM F141X; HSEM F301, AIS F310, AIS F316 or BA F360; WRTG F111X; WRTG F211X, WRTG F212X, WRTG F213X or WRTG F214X.

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

**Grading System:** Letter Grades with option of Plus/Minus

**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; BSEM degree; upper-division standing.

**Lecture + Lab + Other:** 0 + 6 + 0

**Grading System:** Letter Grades with option of Plus/Minus

**HSEM F453 Organizational Continuity Planning**

3 Credits

Offered Fall

Students are introduced to principles of organizational and government continuity operations and planning. Students will learn how to identify risks, threats, and vulnerabilities, conduct an organizational impact analysis, and develop comprehensive continuity plans. Students will also learn techniques for developing and evaluating continuity programs in the public and private sectors.

**Prerequisites:** Upper-division standing.

**Stacked with** HSEM F653.

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

**Grading System:** Letter Grades with option of Plus/Minus

**HSEM F456 Leadership in the Homeland Security Enterprise**

3 Credits

Offered Fall, Spring and Summer

Course focuses on the challenges faced by leaders during crisis and emergency circumstances. During emergency circumstances, leading others, being able to influence and motivate them is critical. Topics including leadership and followership, crisis decision making, fear and emotion and the unique circumstances of an emergency manager/homeland security professional are examined.

**Prerequisites:** BA F390 or HSEM F301; WRTG F111X, WRTG F211X, WRTG F212X, WRTG F213X or WRTG F214X.

**Cross-listed with** LEAD F456.

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

**Grading System:** Letter Grades with option of Plus/Minus

**HSEM F461 Human Security in Alaska**

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 security, community security, environmental security and political security. Students will examine Alaska Native life through the human security framework.

**Prerequisites:** COM F121X, COM F131X or COM F141X; WRTG F111X; WRTG F211X, WRTG F212X, WRTG F213X or WRTG F214X; junior standing.

**Attributes:** UAF Alaska Native Theme

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

**Grading System:** Letter Grades with option of Plus/Minus

**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

**Grading System:** Letter Grades with option of Plus/Minus

**Repeatable for Credit:** May be taken 3 times for up to 9 credits

**HSEM F473 Disaster Risk Reduction & Climate Change**

3 Credits

Offered As Demand Warrants

This course explores the Disaster Risk Reduction framework alongside Climate Change Adaptation approaches, with a focus on proactive planning, risk reduction and comprehensive practices in risk assessment, emphasizing international approaches, focusing on specific hazards, vulnerabilities and potential solutions to climate-driven challenges.

**Prerequisites:** HSEM F301.

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

**Grading System:** Letter Grades with option of Plus/Minus

**HSEM F476 Innovation for Alaska and the Arctic**

3 Credits

Offered As Demand Warrants

In this course, student teams engage directly with complex, real-world problems from policy, economics, technology, national security and innovation. Students test hypotheses using a start-up model approach, analyze challenge statements and end-users needs and evaluate stakeholder discovery responses to build a picture of the mission requirements.

**Prerequisites:** WRTG F111X; WRTG F211X or F212X; senior standing.

**Cross-listed with** BA F476.

**Stacked with** HSEM F676; MBA F676.

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

**Grading System:** Letter Grades with option of Plus/Minus

**HSEM F601 Legal Aspects of Homeland Security and Emergency Management**

3 Credits

Offered Fall and Spring

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 Economy Act Insurrection Act, Posse Comitatus 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

**Grading System:** Letter Grades with option of Plus/Minus

**HSEM F603 Disaster Management Policy**

3 Credits

Offered Fall, Spring and Summer

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

**Grading System:** Letter Grades with option of Plus/Minus

**HSEM F605 Community Planning in Emergency Management**

3 Credits

Offered Fall

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 MSDM program director.

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

**Grading System:** Letter Grades with option of Plus/Minus

**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 MSDM program director.

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

**Grading System:** Letter Grades with option of Plus/Minus

**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 MSDM program director.

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

**Grading System:** Letter Grades with option of Plus/Minus

**HSEM F613 International Disaster Management**

3 Credits

Offered Fall

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

**Grading System:** Letter Grades with option of Plus/Minus

**HSEM F621 Circumpolar Competition-Arctic Diplomacy and Defense**

3 Credits

Offered Fall

The purpose of this course is to provide 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

**Grading System:** Letter Grades with option of Plus/Minus

**HSEM F622 Arctic Strategies and Operations**

3 Credits

Offered Spring

The purpose of this course is to provide an understanding of northern 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 Arctic 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

**Grading System:** Letter Grades with option of Plus/Minus

**HSEM F632 Project Management**

3 Credits

Offered Fall and Spring

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.

**Cross-listed with** MBA F632.

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

**Grading System:** Letter Grades with option of Plus/Minus



**HSEM F637 Designing Social Science Research Overview**

2 Credits

Offered As Demand Warrants

Overview of designing social science research. Investigations into constructing and analyzing a variety of research designs and data collection methods for social science research. General procedures for conducting literature reviews. Includes overview of Institutional Review Board (IRB) policy and procedures.

**Prerequisites:** ED F601, ED F603, or similar graduate level introductory research course.

**Cross-listed with** ED F637.

**Special Notes:** This course as the first (of six) of the series is intent on learning how to design research.

**Lecture + Lab + Other:** 2 + 0 + 0

**Grading System:** Letter Grades with option of Plus/Minus

**HSEM F638 Designing Social Science Research in Depth**

2 Credits

Offered As Demand Warrants

In-depth learning of quantitative and/or qualitative within social science research. Investigations into constructing and analyzing research designs and data collection methods for social science research. Introductions to the software applications of Atlas.ti for qualitative analysis and SPSS for quantitative analysis.

**Prerequisites:** ED F637.

**Cross-listed with** ED F638.

**Special Notes:** This course as the second of the series is intent on completing students' research design by looking ahead to data collection and refining all of the essential pieces such as problem statement, research questions, methodology and methods.

**Lecture + Lab + Other:** 2 + 0 + 0

**Grading System:** Letter Grades with option of Plus/Minus

**HSEM F641 Information Assurance and Risk Assessment**

3 Credits

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.

**Cross-listed with** MBA F641.

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

**Grading System:** Letter Grades with option of Plus/Minus

**HSEM F644 Conducting Social Science Research Overview**

2 Credits

Offered As Demand Warrants

Data collection techniques for quantitative and/or qualitative methods. Investigations into collecting and synthesizing quantitative and/or qualitative data for use in social science research. Includes software applications of Atlas.ti for qualitative analysis and SPSS for quantitative analysis. Topics included are often not covered in many other courses such as how to create tools to gather the necessary data. Alignment with the methodology, research questions and design are built-in through the series as the work here continues to build upon the courses prior.

**Prerequisites:** ED F638.

**Cross-listed with** ED F647.

**Special Notes:** As the third of six of the series, this course moves to actual data collection techniques connected to students' social science research.

**Lecture + Lab + Other:** 2 + 0 + 0

**Grading System:** Letter Grades with option of Plus/Minus

**HSEM F645 Crisis Management**

3 Credits

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.

**Crosslisted with** MBA F645.

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

**Grading System:** Letter Grades with option of Plus/Minus

**HSEM F646 Business Continuity and Risk Assessment**

3 Credits

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.

**Cross-listed with** MBA F646.

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

**Grading System:** Letter Grades with option of Plus/Minus

**HSEM F647 Business Continuity Audit**

3 Credits

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, MBA or certificate program.

**Cross-listed with** MBA F647.

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

**Grading System:** Letter Grades with option of Plus/Minus

**HSEM F648 Perspectives in Addressing Cybersecurity & Critical Infrastructure**

3 Credits

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.

**Crosslisted with** MBA F648.

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

**Grading System:** Letter Grades with option of Plus/Minus

**HSEM F649 Cyber Threats and Vulnerabilities**

3 Credits

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.

**Cross-listed with** MBA F649.

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

**Grading System:** Letter Grades with option of Plus/Minus

**HSEM F650 Conducting Social Science Research in Depth**

2 Credits

Offered As Demand Warrants

In-depth investigations into collecting and synthesizing quantitative and qualitative data for use in mixed methods research. Includes software applications of Atlas.ti for qualitative analysis and SPSS for quantitative analysis.

**Prerequisites:** ED F647.

**Cross-listed with** ED F648.

**Special Notes:** This course as the fourth of six of the series is intent on completing the data collection by investigating psychometrics, looking ahead to data analysis and looking back for consistency with the methodology, research questions and research design.

**Lecture + Lab + Other:** 2 + 0 + 0

**Grading System:** Letter Grades with option of Plus/Minus

**HSEM F651 Analyzing Social Science Research**

2 Credits

Offered As Demand Warrants

Data analysis techniques for social science research. Investigations into qualitative coding and analysis and/or review of statistical analysis both univariate and multivariate within the context of social science research. Includes use of SPSS and Atlas.ti. Topics included are specialized to support the research design, methodology and data collection efforts of the peer group.

**Prerequisites:** ED F648.

**Cross-listed with** ED F651.

**Special Notes:** This course as the fifth of six of the series moves to actual data analysis techniques for social science research.

**Lecture + Lab + Other:** 2 + 0 + 0

**Grading System:** Letter Grades with option of Plus/Minus

**HSEM F652 Presenting Social Science Research Results**

2 Credits

Offered As Demand Warrants

Data presentation techniques for social science research. Investigations into presenting qualitative and/or statistical analysis results within the context of social science research. Includes use of SPSS and Atlas.ti. Topics included are specialized to support the research design, methodology and data collection efforts of the peer group.

**Prerequisites:** ED F651.

**Cross-listed with** ED F652.

**Special Notes:** This course as the sixth and final of the series concludes the process with a focus on data presentation from a holistic perspective.

**Lecture + Lab + Other:** 2 + 0 + 0

**Grading System:** Letter Grades with option of Plus/Minus

**HSEM F653 Organizational Continuity Planning**

3 Credits

Offered Fall

Students are introduced to principles of organizational and government continuity operations and planning. Students will learn how to identify risks, threats, and vulnerabilities, conduct an organizational impact analysis, and develop comprehensive continuity plans. Students will also learn techniques for developing and evaluating continuity programs in the public and private sectors.

**Prerequisites:** Graduate standing.

**Stacked with** HSEM F453.

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

**Grading System:** Letter Grades with option of Plus/Minus

**HSEM F656 Strategic Leadership**

3 Credits

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.

**Cross-listed with** MBA F656.

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

**Grading System:** Letter Grades with option of Plus/Minus

**HSEM F665 Strategic Collaboration**

3 Credits

Offered As Demand Warrants

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

**Grading System:** Letter Grades with option of Plus/Minus

**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

**Grading System:** Letter Grades with option of Plus/Minus

**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

**Grading System:** Letter Grades with option of Plus/Minus

**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

**Grading System:** Letter Grades with option of Plus/Minus

**HSEM F676 Innovation for Alaska and the Arctic**

3 Credits

Offered As Demand Warrants

In this course, student teams engage directly with complex, real-world problems from policy, economics, technology, national security and innovation. Students test hypotheses using a start-up model approach, analyze challenge statements and end-users needs and evaluate stakeholder discovery responses to build a picture of the mission requirements.

**Prerequisites:** Graduate standing.

**Cross-listed with** MBA F676.

**Stacked with** BA F476; HSEM F476.

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

**Grading System:** Letter Grades with option of Plus/Minus

**HSEM F690 Security and Disaster Management**

3 Credits

Offered Fall, Spring and Summer

This course serves as the capstone course for the security and disaster management degree. This course should be taken near the end of the student's graduate program. This course will focus on the integration of both security and disaster management in a complex globalized environment.

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

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

**Grading System:** Letter Grades with option of Plus/Minus

**HSEM F692 Security and Disaster Management Seminar**

1-6 Credits

Offered Fall and Spring

This course is designed to bring Homeland Security and emergency management topics into the classroom as necessary. Such topics might include Arctic leadership, international security, disaster logistics or disaster economics. Additional topics will arise out of current events.

**Prerequisites:** Permission of MSDM program director.

**Lecture + Lab + Other:** 1-6 + 0 + 0

**Grading System:** Letter Grades with option of Plus/Minus

**Repeatable for Credit:** May be taken 99 times for up to 6 credits