HOMELAND SECURITY AND EMERGENCY MANAGEMENT (HSEM)

HSEM F120  Introduction to Emergency Management  
3 Credits  
Offered As Demand Warrants  
This course will introduce students to the vocabulary and core components of emergency management. The important of this growing field will be discussed. The field is changing rapidly as a result of an increase in frequency, complexity and severity of man-made, natural and technological disasters. Historical events that have changed the nature of the field will be examined and students will be introduced to the leadership and management roles that have emerged as a result of these events taking place.  
Lecture + Lab + Other: 3 + 0 + 0

HSEM F121  Introduction to Homeland Security  
3 Credits  
Offered As Demand Warrants  
This course will introduce students to the vocabulary and important components of homeland security. We will discuss the importance of the agencies associated with homeland security and their interrelated duties and relationships. Historical events that affect homeland security will be examined. State, national and international laws affecting homeland security will be explored. The most critical threats confronting homeland security will be examined.  
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; or permission of instructor.  
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 cyber infrastructure.  
Prerequisites: HSEM F120 or HSEM F121.  
Lecture + Lab + Other: 3 + 0 + 0

HSEM F271  Fiscal Management for Emergency Management Operations  
3 Credits  
Offered Fall  
This course is about accounting for public organizations such as fire, police and similar functions of local governments. Accounting is an essential function in all organizations. This course is from a user’s perspective- understanding accounting reports rather than preparing them. The major topics covered include: understanding financial reports, budgeting preparation, governmental accounting basics, grant writing and management and ethics.  
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 Spring  
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.  
Prerequisites: MATH F113X; or MATH F151X; or MATH F122X.  
Lecture + Lab + Other: 3 + 0 + 0

HSEM F402  Incident Command for Emergency Medical Services  
3 Credits  
Offered As Demand Warrants  
Students will practice use of Incident Command System in coordination with other public safety responders. This course will present scenarios requiring responders to structure their EMS resources within the guidance of NIMS ICS, as appropriate to the needs of the different incident types. Students will demonstrate the implementation of EMS components in an ICS system at incidents. This course is designed to teach the implementation of ICS in day-to-day EMS operations.  
Prerequisites: HSEM 301 or permission of instructor.  
Lecture + Lab + Other: 3 + 0 + 0

HSEM F403  Public Health in Emergencies  
3 Credits  
Offered As Demand Warrants  
This course focuses on the role public health plays in the disaster lifecycle and emergency management. Public Health is a relatively new concept in emergency management. Topics including 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 are examined.  
Prerequisites: HSEM F301; or permission of instructor.  
Lecture + Lab + Other: 3 + 0 + 0

HSEM F404  Public Safety Instructional Methods  
3 Credits  
Offered As Demand Warrants  
This course provides the student with the foundation of public safety instructional techniques. Adult education techniques, roles, issues, domains of learning, instructional models and accreditation issues will be emphasized. Course organization and planning for the public safety community including diverse learning populations will be also discussed.  
Prerequisites: HSEM F301 or permission of instructor.  
Lecture + Lab + Other: 3 + 0 + 0

HSEM F405  Introduction to Emergency Management Exercise Design  
3 Credits  
Offered As Demand Warrants  
The 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 table top 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 or WRTG F213X; HSEM F301; or permission of instructor.  
Lecture + Lab + Other: 3 + 0 + 0

HSEM F406  Comparative Homeland Security  
3 Credits  
Offered As Demand Warrants  
The purpose of this course is to help students develop an understanding of the homeland security and counterterrorism methods utilized by other countries. To achieve this goal, the course will examine several different countries and compare the policies and strategies they have developed to protect their citizens from unique global threats. This course will help broaden student understanding of homeland security in today’s global environment.  
Prerequisites: WRTG F211X or WRTG F213X; HSEM F301; or permission of instructor.  
Lecture + Lab + Other: 3 + 0 + 0

HSEM F407  Comparative Emergency Management  
3 Credits  
Offered As Demand Warrants  
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 or WRTG F213X; HSEM F301; or permission of instructor.  
Lecture + Lab + Other: 3 + 0 + 0

HSEM F408  Homeland Defense and Security  
3 Credits  
Offered As Demand Warrants  
The purpose of this course is to provide students with a 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 or WRTG F213X; HSEM F301; or permission of instructor.  
Lecture + Lab + Other: 3 + 0 + 0

HSEM F412  Emergency Planning and Preparedness  
3 Credits  
Offered Fall or 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; or permission of instructor.  
Lecture + Lab + Other: 3 + 0 + 0
HSEM F415  Cyberdomain in the 21st Century
3 Credits
This is meant to be a foundational cyber course. The cyber domain is misunderstood and the characteristics of the cyber domain are not applied in a coherent manner. This course will provide a theoretical and practical overview of cyber as an operating domain, cyber security as a protective requirement and cyber power as a means to use cyber assets in conflict. This course is designed to teach undergraduate students the history of the cyber domain, practical application of the principles of cyber domain and understand the context in which the cyber domain could influence current and future conflicts. The course addresses a range of topics to provide the student solid overall theoretical foundation of cyber as a domain, a source of national security interest and exposure to the characteristics of cyber commons. The course will provide analysis of case studies, readings, and strategy to enhance understanding of cyber security, cyber power and cyber enterprise. Persons who want careers in Homeland Security or desire knowledge of cyber, cyber domain and the use of cyber functions in the future will obtain historical, theoretical and application knowledge and concepts.
Prerequisites: HSEM F301 or permission of instructor.
Lecture + Lab + Other: 3 + 0 + 0

HSEM F416  Cybersecurity Management
3 Credits
Offered As Demand Warrents
This focuses on developing an understanding of the concepts, trends and strategies associated with cyber security and managing the risk associated with information systems. This course will enable managers to understand risks associated with information technology, know how to develop compensating controls or mitigations and introduce how to implement them. These skills will be developed in two operating contexts: planning for normal operations and during and emergency event/incident. Planning process, mitigation strategies, detection and recovery associated with cyber security and risk management will be covered.
Prerequisite: HSEM F301 or permission of instructor.
Lecture + Lab + Other: 3 + 0 + 0

HSEM F417  Cybersecurity Resiliency
3 Credits
Offered As Demand Warrents
This course focuses on the challenges faced by organizational leadership resisting, responding and recovering from cyber-attacks impacting business critical data. This course will further the understanding of a new and demanding career field emerging within the emergency management and homeland security fields. Without the knowledge of how to build a cyber security resilient organization, the future emergency manager will lack critical skills.
Prerequisites: HSEM F301 or permission of instructor.
Lecture + Lab + Other: 3 + 0 + 0

HSEM F418  Cybercrime, Fraud and Law
3 Credits
Offered As Demand Warrents
This course provides an introduction to cybercrime. The history of cybercrime in the U.S. and the resulting law and regulatory environment it has resulted in are covered. Techniques and resources for investigating cyber incidents will be presented, as well as the methods used to commit malicious or criminal acts. Active elements of the cyber underworld, including organized crime, terrorist and state sponsored activity, will be discussed. Finally students will become familiar with legal processes they may find themselves a part of, litigation, depositions and expert reporting.
Prerequisites: HSEM F301; or permission of instructor.
Lecture + Lab + Other: 3 + 0 + 0

HSEM F423  Disaster Response Operations and Management
3 Credits
Offered As Demand Warrants
The purpose of this course is to develop an understanding of the principles that promote effective disaster response and recovery operations after disasters. To achieve this goal, the course will examine the nature of disasters as well as the roles and responsibilities of various actors involved in emergency management and homeland security. Various problems associated with response and recovery operations will be identified and discussed with special emphasis on the role of technology and communications coordination.
Prerequisites: HSEM F301 or permission of instructor.
Lecture + Lab + Other: 3 + 0 + 0

HSEM F434  All-Hazards Risk Analysis
3 Credits
Offered Fall
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 or permission of instructor.
Lecture + Lab + Other: 3 + 0 + 0

HSEM F439  Supervising Emergency Services
3 Credits
This course is intended for upper division students not yet working in the emergency services field as well as seasoned fire officers seeking a structured examination of issues relating to supervision of firefighters and emergency environment. Topics includes a review of federal laws, labor relations, coaching, counseling and disciplinary action, managing conflict, motivation, stress management, time management and group dynamics. This course will be conducted in seminar format using a flipped classroom approach, in which most content is presented between class sessions and synthesis of information occurs during facilitated class discussions. This course aligns with the National Fire Academy Fire and Emergency Services Higher Education model core curriculum.
Prerequisites: HSEM F301; or permission of instructor.
Lecture + Lab + Other: 3 + 0 + 0
HSEM F440  Advanced Principles of Fire Service Administration  
3 Credits
The class will build a strong base of knowledge for upper-division students not yet working in the emergency services field as well as appeal to seasoned chief fire officers. Topics include community risk management, strategic planning, labor relations, leadership and visioning, managing change, politics, organizational culture and data analysis. This course aligns with the United States Fire Administration (USFA) Fire and Emergency Services Higher Education Curriculum.  
Prerequisites:  HSEM F301; or permission of instructor.  
Lecture + Lab + Other:  0 + 0 + 0

HSEM F445  Business Continuity and Crisis Management  
(0/2, W)  
3 Credits
Offered As Demand Warrants  
The course serves as an introduction to crisis management and organizational continuity from a private sector business crisis and continuity management partnership perspective. The 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 or WRTG F213X; COJO F131X or COJO F141X; HSEM F301 or AIS F310 or F316 or BA F360 or permission of instructor.  
Lecture + Lab + Other:  3 + 0 + 0

HSEM F452  Internship in Emergency Management  
(W)  
3 Credits
Offered As Demand Warrants  
A supervised practical work experience to enable students to apply their course work in a fire department or closely related field of emergency services. Admission dependent upon approved sponsorship arrangements. E.M. degree major; upper division standing; permission of instructor.  
Prerequisites:  WRTG F111X; WRTG F211X or WRTG F213X; B.  
Recommended:  Four semesters of bachelor core; business administration courses.  
Lecture + Lab + Other:  0 + 6 + 0

HSEM F456  Leadership in Dangerous Contexts  
(W)  
3 Credits
Offered As Demand Warrants  
The course focuses on the challenges faced by those who serve as leaders during crisis and emergency circumstances. During emergency circumstances, leading others, being able to influence and motivate them during crisis 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:  HSEM F301; WRTG F111X or WRTG F211X or WRTG F213X; permission of instructor.  
Cross-listed with LEAD F456.  
Lecture + Lab + Other:  3 + 0 + 0

HSEM F601  Legal Aspects of Homeland Security and Emergency Management  
3 Credits  
Offered Fall  
Homeland security and emergency management (HSEM) are heavily regulated by US Code, executive agency guidelines and various federal and state laws and regulations. Participants in emergency planning and execution, are, themselves, subject to myriad laws and regulations while executing their response functions but also in the way they coordinate and interact with other responders whose authorities may differ from their own. This course examines the applicable statutory, regulatory and policy aspects regulating HSEM. It begins with an overview of the Constitution, separation of powers and federalism- the foundation that defines the legal basis for federal, state, tribal and local action before, during and after emergency and contingency management. With this background, the course focuses on 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 emergency and contingency management.  
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  
This course will provide context for and contemporary coverage of the fields of disaster management and homeland security. Emphasis will be placed on the role of persons at all levels; federal, state and local. This can include scientists, engineers, civil and military, elected/appointed officials and first responders. The course will explore how social science research can be usefully applied to policy development and everyday practice. Students will discuss and review public policy, organizational management and leadership issues they will face as 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 Spring  
This course will teach students how community and urban planning principles affect the homeland security and emergency management enterprise. This class is designed with both the traditional emergency manager and urban/community planner in mind to provide a wider perspective as to the larger considerations of urban and community planning in the planning of preparedness. Students will be taught the application of urban community planning methodologies, policies, programs and activities in the context of emergency management. This is an advanced class with the assumption that students have a foundational understanding of basic emergency management and/or homeland security.  
Prerequisites:  Must be admitted to the MSDM program; or permission of MSDM program director.  
Lecture + Lab + Other:  3 + 0 + 0
This course examines security as a discipline and responsibility. The key focus of security is the protection of assets, whether in the public or private sector. It also includes management principles and concepts that practitioners can use to develop defensible and resilient operations, communities and businesses. The course explores the relationship of security to vulnerability and its role in the overall management of risk. It delves into the functions and responsibilities of security practitioners in public and private organizations, and broaches key aspects of institutional security concerns, including control of access, terrorist attack, critical infrastructure protection, insider threats and workplace violence. The course touches on the evolving nature of the homeland security enterprise and of protective concerns within a global context. **Prerequisites:** Must be admitted to the MSDM program; or permission of MSDM program director.

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

**HSEM F609 Human Security**
3 Credits
Offered Summer

This course introduces and reviews the major elements of human security. The term 'human security' provides a human-centric approach to understanding, enhancing and sustaining the security of the individual, as well as our families, communities and nation. A human-centric framework shifts the lens from viewing man-made and natural security challenges — such as 9/11, the Boston Marathon bombing, Hurricane Katrina, and Avian Flu and Ebola — as event — or government-centric. Students will examine traditional security influencers, such as public and mental health, climate change, population and pathogen migration, side by side with traditional national and homeland security. The essential question addressed in this course: by focusing on people as the core—holistically, in terms of cause, effect and a change-agents—do people become solution-enablers rather than objects demanding security and response resources? **Prerequisites:** Must be admitted to the MSDM program; or permission of MSDM program director.

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

**HSEM F613 International Disaster Management**
3 Credits
Offered As Demand Warrants

This course serves as an overview to international disaster management (IDM) addressing the complex and interrelated issues of disasters in a global context. The course will explore historical, socio-economic, risk, hazard, response, preparedness and recovery aspects of international disasters. Special emphasis will be placed on the understanding of those organizations and agencies which play a prominent role in the international disaster management arena. **Prerequisites:** Must be admitted to the MSDM program; or permission of the MSDM program director.

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