

FIRE AND EMERGENCY SERV ADMIN (FESA)

FESA 3101 Jag Tracks III-Applied Writing

Credit: 1 (1-0-0)

The focus of this course is discovering students' place in a disciplinary discussion where students will demonstrate knowledge of discipline-specific academic resources, develop major issues within the discipline, and become active members of the community within the discipline. This course will focus on specific writing topics such as preparing an executive summary, preparing a budget proposal and bid process, preparation of grant proposals and other management level writing topics. TSI Restriction(s): Reading, and Writing

Prerequisites: Junior or senior standing; UNIV 2101 or Junior standing, Enrollment in FADM, FESA, or HSEC concentration.

Restrictions: Enrollment limited to students with a semester level of Junior or Senior. Enrollment is limited to students with a concentration in FESA-Fire Administration, Fire_Emergency Services Admin or FESA-Homeland Security.

FESA 3330 Political/Legal Fndtns Fire Sci

Credits: 3 (3-0-0)

This course examines the legal aspects of the fire service and political and social impacts of legal issues. This course includes a review of the American legal system, Texas legal system, local government systems and in-depth coverage of legal and political issues involving employment and personnel matters, administrative and operational matters, planning and code enforcement, and legislative and political processes with regard to the fire service. TSI Restriction(s): Reading, Math, and Writing

Restrictions: Graduate level students may not enroll.

FESA 3332 Fire Prevention Org and Mgmt

Credits: 3 (3-0-0)

This course examines the factors that shape fire risk and the tools for fire prevention, including risk reduction education, codes and standards, inspection and plans review, fire investigation, research, master planning, and various types or influence and strategies. TSI Restriction(s): Reading, Math, and Writing

Restrictions: Graduate level students may not enroll.

FESA 3334 Personnel Mgmt-Fire/Emerg Serv

Credits: 3 (3-0-0)

An examination of the basic human resource management and development practices of the fire and emergency services professions. Topics include, but are not limited to the development of the merit system and civil service; public sector requirements of hiring, promotion, pay, and benefits; discipline and grievance handling; the development and impact of public-sector collective bargaining. TSI Restriction(s): Reading, Math, and Writing

Restrictions: Graduate level students may not enroll.

FESA 3336 Adv Prin Fire/Emer Safety Surv

Credits: 3 (3-0-0)

This course will look at the basic principles and history related to the National Fire Fighter life safety initiatives, focusing on the need for cultural and behavior change throughout the emergency services. The course will also emphasize their importance of safety and survival at the supervisory and managerial levels. TSI Restriction(s): Reading, Math, and Writing

Restrictions: Graduate level students may not enroll.

FESA 3338 Community Risk Reduction

Credits: 3 (3-0-0)

This course examines concepts of community sociology, the role of fire-related organizations within the community, and their impact on the local fire problem, including fire service relationships within the community and other agencies, developing a community inventory, shaping community policy, master planning, and shaping community perceptions about the local fire service. TSI Restriction(s): Reading, Math, and Writing

Restrictions: Graduate level students may not enroll.

FESA 3340 Disaster Planning and Control

Credits: 3 (3-0-0)

This course examines concepts and principles Disaster Planning and Control of fires, and natural and man-made disasters, including National Incident Management System - Incident Command Systems (NIMS ICS), mutual aid and automatic response, training and preparedness, communications, civil disturbances, terrorist threats/incidents, hazardous materials planning, mass casualty incidents, earthquake preparedness, and disaster mitigation and recovery. TSI Restriction(s): Reading, Math, and Writing

Restrictions: Graduate level students may not enroll.

FESA 3342 Advanced Leadership for the Fire Officer

Credits: 3 (3-0-0)

This course will enable students to meet the knowledge and skill requirements of NFPA 1021, Standard for Fire Service Officer Professional qualifications, Chapter 6. The class is designed to focus on advanced management of fire service divisions/programs. The course will focus on several key areas the mid-level fire officers are required to manage and lead. This course will require the students to complete skill requirements of a Fire Officer III as prescribed by Texas Commission on Fire Protection (TCFP). TSI Restriction(s): Reading, Math, and Writing

Restrictions: Graduate level students may not enroll.

FESA 3344 Management of Fire Department Training Programs

Credits: 3 (3-0-0)

This course will enable students to meet the requirements of NFPA 1041, Standard for Fire Service Instructor Professional qualifications. This course will expand the knowledge and ability of the student to develop comprehensive training curriculum and programs for use by single or multiple organizations; conduct organization needs analysis; and develop training goals and implementation strategies. This course will require the students to complete skill requirements of a Fire Instructor III as prescribed by Texas Commission on Fire Protection (TCFP). TSI Restriction(s): Reading, Math, and Writing

Restrictions: Graduate level students may not enroll.

FESA 3346 Adv Firefight Strategy/Tactics**Credits:** 3 (3-0-0)

Emphasis on the use of incident management in large scale command problems and other specialized fire problems. Students will utilize the National Infrastructure Preparedness Plan (NIPP, 2013) to identify Critical Infrastructure and Key Resources (CIKR) needs and issues in relation to strategy and tactical requirements related to Homeland Security responses. TSI Restriction(s): Reading, Math, and Writing

Restrictions: Graduate level students may not enroll.**FESA 3348 Homeland Security/Homeland Def****Credits:** 3 (3-0-0)

This class will examine the policy and practices related to Homeland Security and Homeland Defense. Students will utilize the National Infrastructure Preparedness Plan (NIPP, 2013), Homeland Security and Homeland Defense documents to understand the policy and practices since the creation of the Department of Homeland Security. Students identify Critical Infrastructure and Key Resources (CIKR) needs and issues in relation to requirements related to Homeland Security response. TSI Restriction(s): Reading, Math, and Writing

Restrictions: Graduate level students may not enroll.**FESA 3350 Intro-Fndmntl Homeland Securit****Credits:** 3 (3-0-0)

This course is an introductory course that examines many facets of Homeland Security in the United States as it relates to emergency response. There will be a review of the historical and contemporary governmental theories and practices of Homeland Security and emergency services at both the public and private levels. An examination of Homeland Security as it relates to national, regional, state and local emergency responses will be provided. The course also details the administrative, legislative and operational elements of Homeland Security with an understanding and appreciation of Presidential declarations, Presidential directives, judicial rulings, Congressional initiatives and constitutional rights as it applies to providing emergency services to the citizens of the United States. Other topics to be presented as they relate to emergency responders may include the threat of terrorism, manmade and natural disasters, governmental policy, intelligence and investigative techniques that support this overall objective. TSI Restriction(s): Reading, Math, and Writing

Restrictions: Graduate level students may not enroll.**FESA 3352 Homeland Security/Emerg Mgmt****Credits:** 3 (3-0-0)

This course will examine the evolution of emergency management, homeland security and emergency response in the wake of the events of 9-11 and Hurricane Katrina. It will survey multiple disciplines involved in the disaster processes and future directions in these fields. Students will also examine the success and failures of emergency management by examining such incidents as World Trade Center Attacks, Pentagon Attacks, Hurricane Katrina, Hurricane Ike, Los Angeles Riots and other emergency events that have shaped the relationship between the fire service and emergency management and the Federal Government. TSI Restriction(s): Reading, Math, and Writing

Restrictions: Graduate level students may not enroll.**FESA 3356 Business Continuity: Understanding Disaster Response and Recovery****Credits:** 3 (3-0-0)

The course covers business continuity planning, from an emergency response methodology used to create and validate a plan for maintaining continuous business operations before, during, and after disasters or disruptive events. It also covers disaster recovery, which is aimed at stopping the effects of disasters as quickly as possible, and addressing the immediate aftermath. TSI Restriction(s): Reading, Math, and Writing

Restrictions:**FESA 3358 Exer, Dsgn, Eval Fire/Emg Serv****Credits:** 3 (3-0-0)

Exercise, Design, and Evaluation is intended to provide participants with the knowledge and skills to develop and conduct disaster exercises that will test a community's emergency operations plan and operational response capability. To this end, the course provides hands-on training in the design, conduct and evaluation of exercise so that participants will be able to develop and implement a comprehensive exercise program in their respective jurisdictions. TSI Restriction(s): Reading, Math, and Writing

Restrictions: Graduate level students may not enroll.**FESA 4101 Jag IV-Critical Thnk Public Sfty****Credit:** 1 (1-0-0)

The focus of this course is discovering students' place in a professional field where students will demonstrate knowledge of professional expectations and resources, demonstrate growth over their university experience, and become active members in their profession. TSI Restriction(s): Reading, Math, and Writing

Prerequisites: Senior standing; UNIV 3101 or FESA 3101 or Senior standing; Enrollment in FADM, FESA, or HSEC concentration.**Restrictions:** Enrollment limited to students with a semester level of Senior. Enrollment is limited to students with a concentration in FESA-Fire Administration, Fire_Emergency Services Admin or FESA-Homeland Security.**FESA 4310 Fire/Emergency Serv Administra****Credits:** 3 (3-0-0)

This course is designed to be a progressive primer for students who want more knowledge about fire and emergency services administration. The course examines the important skills and knowledge needed to manage/lead fire and emergency services department through the challenges and changes of the 21st century. Topics include Leadership skills, accountable budgeting, anticipation of challenges and the need for change, and using specific management tools for analyzing and solving problems. A central part of the course focuses on how the leadership of a fire and emergency services department develops internal and external cooperation to create a coordinated approach to achieving the department's mission. TSI Restriction(s): Reading, Math, and Writing

Restrictions: Graduate level students may not enroll.

FESA 4312 Applications of Fire Research**Credits:** 3 (3-0-0)

This course examines the basic principles of research and methodology for analyzing current fire-related research. The course also provides a framework for conducting and evaluating independent research in the following areas: fire dynamics, fire test standards and codes, fire safety, fire modeling, structural fire safety, life-safety, firefighter health and safety, automatic detection and suppression, transportation fire hazards, risk analysis and loss control, fire service applied research and new trends in fire-related research. TSI Restriction(s): Reading, Math, and Writing

Restrictions: Graduate level students may not enroll.**FESA 4314 Public Safety Leadership/Ethic****Credits:** 3 (3-0-0)

This course will introduce students to a variety of issues within the context of leadership. Through a variety of learning methodologies such as written case studies, video case analysis, and interactive learning processes, the student will not only study leadership and ethics. A focus of this course is to provide public safety members with a greater understanding and appreciation of the concerns and issues involving leadership and ethics, which exist within the realm of public safety leadership. Further, it is the goal of this course for each student to exercise effective leadership in all aspects of life. TSI Restriction(s): Reading, Math, and Writing

Restrictions: Graduate level students may not enroll.**FESA 4316 Dev Data Base Outcome/Fire/EMS****Credits:** 3 (3-0-0)

This course will provide information and tools that fire service personnel and other public service managers can use to develop and prepare their agency to evaluate performance activities. The course will introduce the student to the self-assessment and accreditation processes as developed by Center for Public Safety Excellence (CPSE) and their accreditation programs administered by the Commission on Fire Accreditation International (CFAI) and the Commission on Professional Credentialing (CPC). The course will introduce students to basic analysis techniques using Microsoft Excel. Students will learn how to evaluate fire service data, develop recommendations, and identify needs and trends. TSI Restriction(s): Reading, Math, and Writing

Restrictions: Graduate level students may not enroll.**FESA 4318 Terrorism and WMD****Credits:** 3 (3-0-0)

Examines the philosophies and tactics of terrorist groups, in relation to the use of weapons of mass destruction (WMD), and discusses emerging terrorism trends and WMD issues in context of the fire service. Also, covers the study of the methodology, incident response, and managing the consequences of events involving terrorist activities and WMD's. TSI Restriction(s): Reading, Math, and Writing

Restrictions: Graduate level students may not enroll.**FESA 4320 Fin Mgmt Public Budget Fire/EMS****Credits:** 3 (3-0-0)

Public budgeting is a complex and rapidly changing field. What public budgeting depends on who asks the question and on prevailing collective views regarding the role and responsibility of government. Many questions and, thus, many answers are possible. But, who gets what and how governments generate the funds to finance public services are still the "big questions" of public budgeting. Students will be introduced to the principles and practices used by federal, state, and local governments to acquire and spend money within the context of American Democracy, capitalism, federalism, and economics. TSI Restriction(s): Reading, Math, and Writing

Restrictions: Graduate level students may not enroll.**FESA 4324 Adv Mgmt for Chief Fire Officer****Credits:** 3 (3-0-0)

This course will enable students to meet the knowledge and skill requirements of NFPA 1021, Standard for Fire Service Officer Professional qualifications, Chapter 7. The class is designed to focus on executive level chief officer management of fire service divisions/programs. The course will focus on several key administrative areas that the executive level fire officers are required to lead and manage. This course will require the students to complete skill requirements of a Fire Officer IV as prescribed by Texas Commission on Fire Protection (TCFP). TSI Restriction(s): Reading, Math, and Writing

Restrictions: Graduate level students may not enroll.**FESA 4360 Homelnd Secur Law/Policy/Pract****Credits:** 3 (3-0-0)

This course will provide an overview of the laws governing the respective powers and responsibilities of the different branches of government (executive, legislative, and judiciary) at the federal, state, and local level as they relate to emergency administration, preparedness and response on matters affecting homeland security. Homeland security is an American umbrella term for "the concerted national effort to ensure a homeland that is safe, secure, and resilient against terrorism and other hazards where American interests, aspirations, and ways of life can thrive to the national effort to prevent terrorist attacks within the United States, reduce the vulnerability of the U.S. to terrorism, and minimize the damage from attacks that do occur. With the creation of the Department of Homeland Security and the changes to emergency response policies and practices fire and emergency response personnel must have a sound understanding of the laws, policies and practices that govern the areas related to homeland security and emergency response. TSI Restriction(s): Reading, Math, and Writing

Restrictions: Graduate level students may not enroll.**FESA 4362 Intro Crit Infrastruc/Key Resr****Credits:** 3 (3-0-0)

The course will provide an overview of the nation's strategies for critical infrastructure protection. The course will examine the definition of critical infrastructure as it exists today. Students will examine the seventeen areas of critical infrastructure. Students will also gain insight and understanding into the public and private partnership that is involved in protecting Critical Infrastructure and Key Resources (CIKR). TSI Restriction(s): Reading, Math, and Writing

Restrictions: Graduate level students may not enroll.

FESA 4364 Introduction to Cybersecurity for Public Safety**Credits:** 3 (3-0-0)

This course is an introduction to the field of Cybersecurity for those who are curious about it, and who want to be literate in the field. Learners will gain an overview of the Cybersecurity landscape including perspectives from both an international and national (USA) arenas along with a starter to the threat potential and the legal consequences. Students will be introduced how public safety can be impacted by cybersecurity attacks and other issues related to cybersecurity landscape. TSI Restriction(s): Reading, Math, and Writing

Restrictions:**FESA 4366 Analyz Public Policy Rltn FESA****Credits:** 3 (3-0-0)

This class introduces fire and emergency services personnel to analytical frameworks for thinking about various aspects of public policy process. We do not student a single context or policy, but rather, seek to understand how policy actors succeed (or fail) in obtaining their objectives in relation to fire and emergency services issues related to public safety. You will learn to think carefully about institutions and how to present your analysis to city leader and policy makers. TSI Restriction(s): Reading, Math, and Writing

Restrictions: Graduate level students may not enroll.**FESA 4368 Intro Unman Aerial Dev (UAV)****Credits:** 3 (3-0-0)

A first course in unmanned aerial vehicles (UAVs), aka "drones", and the technologies involved in their operation. Coverage includes UAV components, command, and control (C2) communication systems, basics of flight, regulatories and regulations, safety and societal considerations. TSI Restriction(s): Reading, Math, and Writing

Restrictions: Graduate level students may not enroll.