FIRE AND EMERGENCY SERVICES

Not all courses are offered every semester. Refer to the schedule of courses for each term’s specific offerings.
More Info (http://registrar.ufl.edu/soc/)

Unless otherwise indicated in the course description, all courses at the University of Florida are taught in English, with the exception of specific foreign language courses.

Department Information
The mission of the M. E. Rinker, Sr. School of Construction Management is to be the center of excellence for construction. The Rinker School will pursue this by promoting professional and ethical behavior in education and practice, advancing the industry by creating new knowledge through research and scholarly activities, educating individuals in principles, knowledge, and skills required to be successful in their professional careers, and providing service and transferring knowledge to the citizens of Florida, the construction industry, professional societies, the nation, and the world.
Website (https://dcp.ufl.edu/rinker/)

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Curriculum
• Combination Degrees
• Construction Management
• Construction Management Certificate
• Emergency Management Certificate
• Emergency Medical Services Management Certificate
• Fire and Emergency Services UF Online
• Senior Fire Officer Certificate

Courses
FES 3004 Political and Legal Foundations of Fire Protection 3 Credits
Grading Scheme: Letter Grade
Examines the legal aspects of fire service and the political and social impacts of legal issues; reviews the American legal system and covers legal and political issues involving employment and personnel matters, administration and operations, and planning and code enforcement with regard to the fire service.
Prerequisite: junior standing or higher.

FES 3015 Principles of Fire and Emergency Services Management 3 Credits
Grading Scheme: Letter Grade
Fundamentals of management underlying the solution of problems of organization and operation of fire and emergency services agencies. (S) (WR)
Prerequisite: junior standing or higher.
Attributes: General Education - Social Science, Satisfies 6000 Words of Writing Requirement

FES 3033 Fire and Emergency Services Labor Issues 3 Credits
Grading Scheme: Letter Grade
Determinants of demand for labor and labor supply. Labor market equilibrium and changes in the equilibrium due to changes in unionization, public policies and technology. Study of the effects of skill, job amenities and discrimination on wage differentials. A review of PERC, FSLA and unions is included.
Prerequisite: junior standing or higher.

FES 3153 FES Communication and Informational Technology 3 Credits
Grading Scheme: Letter Grade
Communications systems used in fire and emergency services such as high frequency voice/data, Internets and Intranets, satellite communications, GPS and GIS. An introduction, examination, equipment assessment, implementation program and maintenance management module are provided for each system covered.
Prerequisite: junior standing or higher.

FES 3223 Foundations of EMS 3 Credits
Grading Scheme: Letter Grade
Covers the design and operation of EMS systems, service delivery, and echelons of care. The history of EMS, interface of public and private organizations and review of the various personnel who comprise these systems, will be examined in relation to their impact on the health care delivery system.
Prerequisite: junior standing or higher.

FES 3227 Ambulance Operations 3 Credits
Grading Scheme: Letter Grade
Overview of the application of management principles to the provision of medical transport services. Includes an analysis of the economic, geographic, temporal, and clinical characteristics of ambulance demand, the key processes for providing transport services, and an evaluation of industry best practices.
Prerequisite: junior standing or higher.

FES 3233 EMS Safety and Risk Management 3 Credits
Grading Scheme: Letter Grade
Introduces the risk management principles of an EMS agency. Emphasizes safety from the perspective of the field provider.
Prerequisite: junior standing or higher.

FES 3263 Public Safety Educator 3 Credits
Grading Scheme: Letter Grade
Introduces the EMS professional to the education system as it relates to EMS education. Explores issues in curriculum development, teaching, program direction, and development.
Prerequisite: junior or senior standing.

FES 3284 Management of Emergency Medical Services 3 Credits
Grading Scheme: Letter Grade
Personnel and resource management issues in providing emergency medical services function. Quality assurance, utilization review techniques, and practices and techniques for delivery of services and distribution of resources are included.
Prerequisite: junior standing.
FES 3285 Advanced Leadership Issues in Emergency Medical Services 3 Credits
Grading Scheme: Letter Grade
Organizational development issues in providing emergency medical services function in the fire-based, hospital-based and third-service environments. Establishing and directing emergency medical services’ work teams is also covered.
Prerequisite: junior standing.

FES 3533 Community Risk Reduction for Emergency Services 3 Credits
Grading Scheme: Letter Grade
Provides a theoretical framework for the understanding of the ethical, sociological, organizational, political, and legal components of community risk reduction, and a methodology for the development of a comprehensive community risk reduction plan.
Prerequisite: junior or senior standing.

FES 3720 Strategic Planning for FES 3 Credits
Grading Scheme: Letter Grade
Provides the conceptual framework for the development of a strategic plan for emergency management, fire protection, and emergency medical service. Also provides guidance through the process of the needs, resources, and capabilities of the organization and how to establish a plan to achieve improved performance.
Prerequisite: junior standing.

FES 3753 Fire and Emergency Services Financial Management 3 Credits
Grading Scheme: Letter Grade
Planning, developing, presenting, funding and implementing a budget for a fire and emergency services agency. Additional topics include special taxing districts, bond issues and fund-raising campaigns.
Prerequisite: junior standing.

FES 3755 Fire and Emergency Services Capital Equipment and Facilities 3 Credits
Grading Scheme: Letter Grade
Procedures for the acquisition, utilization and disposition of fire and emergency services apparatus and station facilities. Specification and purchasing of apparatus are included. An examination of facility siting, building design and land acquisition and financing is conducted. Additional material addresses special capital purchases such as communications, safety and operational equipment.
Prerequisite: FES 3753 and junior standing.

FES 3780 Analytical Approaches to Fire Protection 3 Credits
Grading Scheme: Letter Grade
Examines the tools and techniques of rational decision making in fire and emergency services agencies, including data collection, statistics, probability, decision analysis, utility modeling, resource allocation, and cost benefit analysis.
Prerequisite: junior or senior standing.

FES 3782 Applications of Fire Research 3 Credits
Grading Scheme: Letter Grade
Examines methodology for analyzing fire-related research; provides a framework for independent research in fire dynamics, fire test standards, fire safety, fire modeling, structural fire safety, life-safety, firefighter safety, automatic detection and suppression, risk analysis and loss control, applied research, and fire-related research trends.
Prerequisite: junior or senior standing.

FES 3803 Multi-Agency Incident Command 3 Credits
Grading Scheme: Letter Grade
Managing complex incidents that may require response from fire-rescue, emergency medical services, law enforcement and/or other public safety sectors. Use of the incident management system is emphasized.
Prerequisite: junior standing.

FES 3815 Command and Control at Catastrophic Fire-Rescue Incidents 3 Credits
Grading Scheme: Letter Grade
Incident command at multiple-alarm incidents, emphasizing rapid fireground decision-making, safety, personnel accountability and communications. Settings for scenarios include multi-family occupancies, hotels, high-rises, healthcare facilities and large retail centers.
Prerequisite: junior standing.

FES 3822 Disaster Policy in Emergency Management 3 Credits
Grading Scheme: Letter Grade
Describes the functional demands that emergency managers should be aware of in crafting effective emergency management plans, policies, and programs. Addresses how public policy choices impact emergency planning and the consequences of a disaster event. Emphasizes the emergency planning process.
Prerequisite: junior or senior standing.

FES 3823 Fire and Emergency Services Integrated Operations 3 Credits
Grading Scheme: Letter Grade
The broad issues involved in comprehensive emergency management at the local level. The emergency management cycle of preparedness, mitigation, response and recovery is emphasized as are the legal, operational and administrative aspects of state and federal interface.
Prerequisite: junior standing.

FES 4003 Fire and Emergency Services Administration 3 Credits
Grading Scheme: Letter Grade
Demonstrates the importance of persuasion and influence, budgeting, anticipation of challenges and change, and management tools for analyzing and solving problems; explores how the leadership of a fire and emergency services department develops internal and external cooperation to achieve the department’s mission.
Prerequisite: junior or senior standing.

FES 4014 Foundations of Emergency Management 3 Credits
Grading Scheme: Letter Grade
Prerequisite: junior or senior standing.

FES 4023 Fire and Emergency Services Ethical Practices and Leadership 3 Credits
Grading Scheme: Letter Grade
The role of agency leadership and its impact on the continuing professionalization of the fire and emergency services. Examines traditional and evolving definitions, practices and skills in leadership behavior, including discussions of power, influence, ethics and organizational behavior.
Prerequisite: senior standing.
FES 4034 Regulatory Issues in Fire and Emergency Services 3 Credits
Grading Scheme: Letter Grade
Introduces safety, health and environmental regulations on the state and federal levels that impact the delivery of fire and emergency services. OSHA, EPA and NFPA regulatory requirements are introduced along with methods and techniques to implement compliance programs.
Prerequisite: FES 4003 and senior standing.

FES 4045 Fire and Emergency Services Human Resource Management 3 Credits
Grading Scheme: Letter Grade
Major human resource management functional areas for fire and emergency services agencies. Topics include organizational employment planning, employment regulation, job analysis, performance assessment, recruitment and regulation, job analysis, performance assessment, recruitment and selection, training and development, employee/labor relations and compensation.
Prerequisite: FES 3015 and senior standing.

FES 4055 Fire and Emergency Services Public Relations 3 Credits
Grading Scheme: Letter Grade
Implementation of principles and methods in advocating factual claims and policy proposals: prepositional analysis, evidence as demonstration, effective reasoning processes and ethics in controversy. Also focuses on public speaking and presentations, especially in the areas of technology, defense of budgets and political leadership.
Prerequisite: senior standing.

FES 4224 Management of Mass Casualty Incidents 3 Credits
Grading Scheme: Letter Grade
Covers systematic approaches to triage, treatment and transport in response to large-scale emergency medical services incidents. Resource planning and coordination with hospital systems is also emphasized.
Prerequisite: senior standing.

FES 4226 EMS Special Operations 3 Credits
Grading Scheme: Letter Grade
Discusses the various special roles in which EMS personnel may serve, such as hazardous materials, water rescue, and technical rescue.
Prerequisite: junior or senior standing.

FES 4234 EMS Community Risk Reduction 3 Credits
Grading Scheme: Letter Grade
Provides a theoretical framework for the understanding of the ethical, sociological, organizational, political, and legal components of community risk reduction, and a methodology for the development of a comprehensive community risk reduction plan.
Prerequisite: junior or senior standing.

FES 4244 Legal, Political, and Regulatory in EMS 3 Credits
Grading Scheme: Letter Grade
Introduces the EMS professional to the legal aspects of Emergency Medical Services. Explores issues in malpractice, consent and refusal of treatment, OSHA, employment issues, and risk management. EMS students gain insights into the legal liabilities in Emergency Medical Services.
Prerequisite: junior or senior standing.

FES 4274 Quality Management and Research in Emergency Services 3 Credits
Grading Scheme: Letter Grade
Introduces the EMS professional to benefits of quality improvement, the history of quality in EMS, measuring quality, and the uses of quality in EMS.
Prerequisite: junior or senior standing.

FES 4585 Management of Fire Prevention Programs 3 Credits
Grading Scheme: Letter Grade
Planning, promoting and executing fire prevention functions, including an emphasis on legal responsibilities, needs assessments, negotiation and planning activities.
Prerequisite: senior standing.

FES 4685 Fire Investigation and Analysis 3 Credits
Grading Scheme: Letter Grade
Examines the technical, investigative, legal, and social aspects of arson, including principles of incendiary fire analysis and detection, environmental and psychological factors of arson, legal considerations, intervention, and mitigation strategies.
Prerequisite: senior standing.

FES 4804 Disaster Recovery and Mitigation 3 Credits
Grading Scheme: Letter Grade
Provides the opportunity to understand real world disaster response efforts through academic study and interactive applied activities. Topics include the Incident Command System (ICS), Emergency Operations Center (EOC) management, Resource Management (RM), and Command-Communications-Coordination (C3).
Prerequisite: junior or senior standing.

FES 4820 Critical Incident Management for Emergency Managers 3 Credits
Grading Scheme: Letter Grade
Examines disaster planning and emergency management. Focuses on the four phases of planning, mitigation, response, and preparedness. Includes FEMA and federal government NIMS ICS-700 and ICS-800 certifications.
Prerequisite: junior or senior standing.

FES 4825 Disaster Planning and Control 3 Credits
Grading Scheme: Letter Grade
Examines concepts and principles of community risk assessment, planning and response to fires and natural and human-caused disasters, including National Incident Management System (NIMS) Incident Command Systems, 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.
Prerequisite: FES 3823 and senior standing.

FES 4835 Natural Disaster Phenomena in Florida 3 Credits
Grading Scheme: Letter Grade
Natural disasters prevalent in Florida: past, present, and future, including hurricanes, flooding, freezes, and agricultural emergencies. Also addresses planning, operations, mitigation, recovery, and evaluation concerns.
Prerequisite: junior or senior standing.

FES 4884 Introduction to Terrorism in Emergency Management 3 Credits
Grading Scheme: Letter Grade
Introduces the fundamental concepts, theories, principles, and practice of terrorism and terrorist events.
Prerequisite: junior or senior standing.

FES 4905 Special Studies in Fire and Emergency Services 1-3 Credits
Grading Scheme: Letter Grade
Special areas of study in fire and emergency services adjusted to the needs of individual students.
Prerequisite: instructor permission.
FES 4935 Current Issues in Fire and Emergency Services 3 Credits
Grading Scheme: Letter Grade
Information and direction for fire service administrators on current legislative, legal, labor and/or technology concerns facing fire and emergency services agencies.
Prerequisite: senior standing.

FFP 4507 Management of Fire-Related Human Behavior 3 Credits
Grading Scheme: Letter Grade
Focuses on human behavior in emergencies; examines research on human behavior, systems models, life-safety education, and building design, exploring a best-practice building life-safety system in terms of psychology and sociology joined with engineering and education to produce best outcomes of human survivability in emergencies.
Prerequisite: Junior or Senior standing.