

# FIRE AND EMERGENCY SERVICES

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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/>)

*Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.*

## 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/>)

### CONTACT

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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, FLSA 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

Examines the history and the principles establishing Emergency Management in the United States. Describes the "Four Phases of Emergency Management," relates processes to codes and laws governing Emergency Management, and examines Emergency Management and the terrorist threat.

**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: propositional 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–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.

**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.

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