

Fire Services Administration

The Fire Services Administration program's BA/BS degree requirements provide for a major built upon an associate degree in fire protection science or a professional technical core fire science curriculum available from most community college fire programs. Core lower-division courses are available online through the EOU FSA program.

Transfer students: Completion of an associate's degree in a fire science or fire protection technology or a related fire program should allow the transfer student to graduate within 2 years. The National Fire Academy (NFA) has recognized the EOU FSA program as a Fire and Emergency Services Higher Education (FESHE) compliant program.

LEARNING OUTCOMES

- *Content Knowledge:* Demonstrate a broad-based understanding of the roles and responsibilities of the fire services including all-hazard prevention, response, and mitigation, staffing, organization, and future-planning.
- *Communication:* Demonstrate an understanding of core concepts in fire and emergency services through effective communication, including scholarly writing and presentations.
- *Inquiry:* Demonstrate and apply cross-cultural perspectives, rooted in inquiry-based knowledge, in the analysis of social, economic, and political issues affecting the need for, and delivery of, fire and emergency services.
- *Critical Thinking:* Demonstrate effective skills in critical thinking, analytical and reflective writing, and appropriate discourse within the fire and emergency services field.
- *Civic Engagement:* Identify, analyze, and address real world problems through investigation and analysis of community hazards and hazard mitigation techniques and planning.
- *Applied and Integrated Learning:* Connect student experience in the curriculum with required Knowledge, Skills and Abilities (KSAs) provided in relevant National Fire Protection Association (NFPA) publications paying particular attention to NFPA 1021: Standard for Fire Officer Professional Qualifications.

MEANS OF ASSESSMENT

- Successful completion of required and elective course work with at least a C- in every graded course counted toward the major.
- Successful completion of the University Writing Requirement in addition to writing-intensive courses in the major.

To assess student learning, the faculty will employ traditional evaluation techniques such as multiple-choice & true-false quizzes, short answer questions, and analytic problems. Additionally, students have mandatory discussion board participation requiring a thoughtful analysis and response to a given topic along with mandatory thoughtful interaction with classmates. Students also have research and writing assignments reflecting student investigation of a topic while demonstrating proficiency in a professional writing style (APA 6.0 required).

FSA courses required by the Oregon Department of Public Safety Standards and Training (DPSST) for Firefighter III & IV certification. Course objectives and outcomes correspond to the standards published in NFPA 1021, Standard for Fire Officer Professional Qualifications, chapters 6 & 7 (2014 Edition).

All core Lower Division FSA classes are offered online once per year and all core Upper Division FSA classes are offered online at least twice per year, usually on alternating terms (summer/winter & spring/fall rotations). FSA electives are generally offered at least once per year. Upper division courses in the FSA program are occasionally offered as on-site weekend hybrid courses in Eastern Oregon, Southern Oregon and the Portland region. By agreement, EOU accepts fire service courses taken through WOU's former FSA program and they are applied as residency credit.

The EOU FSA program makes maximum use of professional certifications. Evaluation of NFA course work and state certifications can yield course credit equivalent to required or elective courses for nominal fees. Contact an FSA advisor for more information.

REQUIREMENTS FOR A MINOR IN FIRE SERVICES ADMINISTRATION

Lower Division Requirements

FSA 204 Fire Protection Systems (3)

FSA 210 Strategy and Tactics (3)

FSA 212 Fire Prevention (3)

FSA 214 Building Construction for Fire Protection (3)

FSA 216 Principles of Emergency Services Safety & Survival (3)

Upper Division Requirements

FSA 311 Principles of Fire Protection Mgmt (3)

FSA 313 Personnel Mgmt for Fire & Emergency Services (3)

FSA 317 Fiscal Management in Fire Protection (3)

FSA 319 Political & Legal Foundations of Fire Protection (3)

Choose one 400-level FSA prefix course (except practicum (3)

Total Credits: 30 minimum including 15 upper division

REQUIREMENTS FOR THE BA OR BS IN FIRE SERVICES ADMINISTRATION

All students, including those with an Associate Degree in Fire Science/Fire Protection Technology or related degree, must complete the lower division fire technology core curriculum or equivalents:

Lower Division Requirements

- FSA 202** Principles of Emergency Services (3)
- FSA 204** Fire Protection Systems (3)
- FSA 206** Fire Behavior and Combustion (3)
- FSA 208** Fire Protection Hydraulics and Water Supply (3)
- FSA 210** Fire Strategy and Tactics (3)
- FSA 212** Fire Prevention (3)
- FSA 214** Building Construction for Fire Protection (3)
- FSA 216** Principles of Emergency Services, Safety and Survival (3)

EOU's Fire Services Administration program strongly encourages substantial firefighting experience training equivalent to the Firefighter II designation. The FSA program chair determines all lower division course equivalencies. Waivers may be granted at the discretion of the FSA program chair.

Upper Division Requirements

a) Complete the following required courses with a grade of "C-" or better.

- FSA 307** Emergency Services Delivery (3)
- FSA 309** Fire Investigation & Analysis (3)
- FSA 311** Prin Fire Protection Mgmt (3)
- FSA 313** Personal Mgt Fire/Emerg Svc(3) UWR
- FSA 315** Organization Fire Protection (3)
- FSA 317** Fiscal Mgmt Fire Protection (3)
- FSA 319** Political & Legal Foundations of Fire Protection (3)

b) Advanced Institute Capstone (3)

(Choose from one of seven 400+ level Advanced Institute courses, which may be available both onsite and online)

Upper division elective coursework in Business, Social Science, Psychology, Political Science, Economics, and Communications (27 quarter credit hours).

Typical FSA 4 Year Plan

Year 1

- MATH 105** Lotteries & Loans (4)
- WR 121** Expository Prose Writing (4)
- GEN ED / electives (37)

Year 2

- FSA 202** Principles of Emergency Services (3)
- FSA 204** Fire Protection Systems (3)
- FSA 206** Fire Behavior and Combustion (3)
- FSA 208** Fire Protection Hydraulics and Water Supply (3)
- FSA 210** Fire Strategy and Tactics (3)
- FSA 212** Fire Prevention (3)
- FSA 214** Building Construction for Fire Protection (3)
- FSA 216** Principles of Emergency Services Safety and Survival (3)
- GEN ED / electives (21)

Year 3

- FSA 307** Emergency Services Delivery (3)
- FSA 309** Fire Investigation and Analysis (3)
- FSA 311** Principles of Fire Protection Management (3)
- FSA 313** Personnel Management for the Fire and Emergency Services (3)
- FSA 315** Organization for Fire Protection (3)
- FSA 317** Fiscal Management in Fire Protection (3)
- FSA 319** Political and Legal Foundations of Fire Protection (3)
- GEN ED / electives (24)

Year 4

- Choose one 400-level Advanced Institute course (3)
- FSA support** area upper-division electives (27)
- GEN ED / electives (15)

FIRE SERVICES ADMINISTRATION COURSE DESCRIPTIONS

FSA 202 - Principles of Emergency Services (Credits: 3)

This course provides an overview to fire protection and emergency services; career opportunities in fire protection and related fields; culture and history of emergency services; fire loss analysis; organization and function of public and private fire protection services; fire departments as a part of local government; laws and regulations affecting the fire service; fire service nomenclature; specific fire protection functions; basic fire chemistry and physics; introduction to fire protection systems; introduction to fire strategy and tactics; life safety initiatives. FESHE course code: (C0273)

FSA 204 - Fire Protection Systems (Credits: 3)

This course provides information relating to the features of design and operation of fire alarm systems, water-based fire suppression systems, special hazard fire suppression systems, water supply for fire protection and portable fire extinguishers. FESHE course code: (C0288)

FSA 206 - Fire Behavior and Combustion (Credits: 3)

This course explores the theories and fundamentals of how and why fires start, spread, and are controlled. FESHE course code: (C0276)

FSA 208 - Fire Protection Hydraulics and Water Supply (Credits: 3)

This course provides a foundation of theoretical knowledge in order to understand the principles of the use of water in fire protection and to apply hydraulic principles to analyze and solve water supply problems. FESHE course code: (C0277)

FSA 210 - Fire Strategy and Tactics (Credits: 3)

This course provides the principles of fire ground control through utilization of personnel, equipment, and extinguishing agents. FESHE course code: (C0279)

FSA 212 - Fire Prevention (Credits: 3)

This course provides fundamental knowledge relating to the field of fire prevention. Topics include: history and philosophy of fire prevention; organization and operation of fire prevention bureau; use and application of codes and standards; plans review; fire inspections; fire and life safety education; and fire investigation. FESHE course code: (C0286)

FSA 214 - Building Construction for Fire Protection (Credits: 3)

This course provides the components of building construction related to firefighter and life safety. The elements of construction and design of structures are shown to be key factors when inspecting buildings, preplanning fire operations and operating at emergencies. Prerequisites: FSA 202 Principles of Emergency Services. FESHE course code: (C0275)

FSA 216 - Principles of Emergency Services, Safety and Survival (Credits: 3)

This course introduces the basic principles and history related to the national firefighter life safety initiatives, focusing on the need for cultural and behavior change throughout the emergency services. FESHE course code: (C0281)

FSA 307 - Emergency Services Delivery (Credits: 3)

Explores multi-agency planning, deployment and operations as they relate to multi-alarm incidents, target hazards and major disasters. Student must have at least sophomore standing to register for this course.

FSA 309 - Fire Investigation & Analysis (Credits: 3)

This course 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. Student must have at least sophomore standing to register for this course. FESHE course code: (C0285)

FSA 311 - Principles of Fire Protection Management (Credits: 3)

An investigation of management and supervisory responsibilities including motivation, discipline, human relations, training, communications, followership, planning, leadership, and management-employee relations. Student must have at least sophomore standing to register for this course.

FSA 313 - Personnel Management for Fire & Emergency Services (Credits: 3)**Institutional Graduation Requirement - UWR**

This course examines relationships and issues in personnel administration and human resource development within the context of fire-related organizations, including personnel management, organizational development, productivity, recruitment and selection, performance management systems, discipline, and collective bargaining. Student must have at least sophomore standing to register for this course. FESHE course code: (C0266)

FSA 315 - Organization for Fire Protection (Credits: 3)

To develop an understanding of fire department organization including fire defenses and insurance ratings, organization for fire suppression and prevention, the fire department and the municipality, and inter-municipality fire services. Student must have at least sophomore standing to register for this course.

FSA 317 - Fiscal Management (Credits: 3)

The budget process, taxation and assessment, operations planning, financial aid and grant programs, allotment of resources, analysis of expenditures and productivity, and management information systems. Student must have at least sophomore standing to register for this course.

FSA 319 - Political & Legal Foundations of Fire Protection (Credits: 3)

This course examines the legal aspects of the fire service and the political and social impacts of legal issues. This course includes a review of the American legal system 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. Student must have at least sophomore standing to register for this course. FESHE course code: (C0258)

FSA 326 - Fire Prevention Organization & Management (Credits: 3)

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, various types of influences, and strategies. Student must have at least sophomore standing to register for this course. FESHE course code: (C0264)

FSA 331 - Community Risk Reduction for the Fire & Emergency Services (Credits: 3)

This course 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 education plan. Student must have at least sophomore standing to register for this course. FESHE course code: (C0287)

FSA 336 - Managerial Issues in Hazardous Materials (Credits: 3)

This course presents current issues in management of a department-wide hazardous materials program. It includes issues that are pertinent to officers and managers in public safety departments, including regulations and requirements for hazardous materials preparedness, response, storage, transportation, handling and use, and the emergency response to terrorism threat/incident. Subjects covered include state, local, and federal emergency response planning, personnel and training, and operational considerations such as determining strategic goals and tactical objectives. Student must have at least sophomore standing to register for this course. FESHE course code: (C0274)

FSA 345 - Multiculturalism in Emergency Services (Credits: 5)
Institutional Graduation Requirement - DPD

This course examines how multiculturalism affects every aspect of our society and its impact on the emergency services workforce. This course provides an extensive familiarization with communication styles, customs, language and behavioral patterns of various cultures, ethnic groups and other dimensions of diversity. The course addresses cultural competency relevant to emergency services operations and administration. Students taking this class will analyze effective workforce multicultural and diversity strategies in decision making and daily activities as it relates to groups employed by and encountered by emergency services professions. Student must have at least sophomore standing to register for this course.

FSA 360 - Aviation Management in Fire Suppression (Credits: 3)

This course examines aviation resource use in the Wildland/urban interface environment, hazard/risk analysis and mitigation techniques, multi-agency aviation resource acquisition and deployment planning, aviation asset utilization in suppressing wildfire, multi-agency Incident Command System, basic fire behavior, dispatching of aviation resources, multi-agency aviation policies, procedures and implementation of aviation assets, analysis of aviation programs within the fire community, aviation communication techniques and procedures, command/control dynamics, strategic and tactical considerations, support and supervision procedures, and aviation program evaluation. Student must have at least sophomore standing to register for this course.

FSA 407 - Seminar (Credits: 1 to 15)

Student lecture and written paper on fire, EMS or emergency management topics. Prerequisite: Consent of instructor. Repeatable.

FSA 409 - Practicum (Credits: 1 to 15)

A practical internship with local/regional partners in work related to the Fire Service, EMS, or Emergency Management. Students will gain practical experience while also completing a scholarly component agreed to between the student, practicum advisor and the student's field advisor. Prerequisites: Consent of instructor.

FSA 410 - Selected Topics (Credits: 1 to 6)

An in-depth review of a current issue in Fire Service Administration, EMS Administration, or Emergency Management intended to enhance a student's knowledge and understanding of relevant current events. Prerequisites: Consent of instructor. Repeatable.

FSA 411 - Management Information Systems (Credits: 3)

This course examines how information technologies affect every aspect of our economy and society, and are transforming work within and across public organizations. This course introduces information technologies that are critical to modern fire service organizations, discusses technology and adoption trends, and explores the evolving role of IT in the public sector. The course covers information technologies relevant to fire service operations, decision making, and e-business. Students taking this class will

understand the role of information technologies in managerial decision making and daily activities, the place for such technologies, and their public sector applications, environmental constraints, and relevance to strategy and planning. Student must have at least junior standing to register for this course.

FSA 415 - Local Government Administration and Community Politics (Credits: 3)

This course provides students with a basic understanding of the structure and function of local government in the United States by examining the legal, political, social and economic factors influencing local policies and relationships with communities of interest. The role of citizens, firms, states, and federal authorities in shaping the public agenda are critically examined to gain an understanding of decision making processes. Student must have at least junior standing to register for this course.

FSA 417 - Advanced Fiscal Management (Credits: 3)

This course examines laws relating to public agency budgeting; formulating a mission statement, goals and objectives; analyzing productivity; preparing a budget; the hearing process; and quarterly allotments. Student must have at least junior standing to register for this course.

FSA 419 - Advanced Legal Aspects of Fire Protection (Credits: 3)

Institutional Graduation Requirement - UWR
Overview of the U.S. Constitution and its relation to state laws; the nature of torts against fire services agencies and individuals; a fire department's responsibilities based upon state laws; court cases which have impacted department operations and their effects upon such operations; fire department compliance with hazardous materials right-to know legislation; and identification of five current legal issues which could impact fire department operations (such as sexual discrimination and privacy issues). Student must have at least junior standing to register for this course.

FSA 421 - Advanced Fire Service Master Planning (Credits: 3)

This course covers the processes and steps used to develop a cost effective delivery system of public services. This delivery system is designed to provide the level of service/protection that a community desires and is based upon acceptable risks and costs. Prerequisite: Must be professional firefighters, fire related emergency services professionals, or have the major of FSA. Student must have at least junior standing to register for this course.

FSA 423 - Labor Management Relations (Credits: 3)

A labor relations course that will introduce the student to the complex world of collective bargaining. It will review the history of the labor movement in the United States and give diligent consideration to the National Labor Relations Act. Additionally, the Fair Labor Standards Act, the Railway Labor Act and Public Sector Labor cases will be studied. Student must have at least junior standing to register for this course.

FSA 445 - Organizational Psychology (Credits: 3)

This course will focus on how fire safety organizations function, based on the psychology of individuals within that organization, and how those individuals interact within groups. Students will be involved in applying the behavioral and social science principles studied to their real life situations as fire professionals. Topics including human motivation, leadership, conflict resolution and organizational structure. Student must have at least junior standing to register for this course.

FSA 460 - Advanced Aviation Management in Fire Suppression (Credits: 3)

This course examines aviation program management in the Wildland/Urban interface environment, aviation policy development and requirements, development of flight operational standards and procedures, the use of "Restricted" category aircraft, aviation life support equipment and use, identification and implementation of established maintenance standards, development of standards for an "approval" process of aviation assets, development of user training and standards, development of a decision making process for program management, identify and develop acquisition methods and the implementation of contracting assets, identify and develop a safety culture in aviation, hazard/risk analysis and mitigation techniques, multi-agency

aviation resource acquisition and deployment planning, aviation asset utilization in suppressing wildfire, aviation program infrastructure development, multi-agency cooperation, working within budgetary constraints of an aviation program, multi-agency aviation policies, procedures and implementation of aviation assets, analysis of aviation programs within the fire community, command/control dynamics, strategic and tactical program considerations, program support and supervision procedures, and aviation program evaluation. Prerequisites: Student must have at least junior standing to register for this course.

FSA 490 - Applications of Fire Research (Credits: 3)

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. Prerequisites: Student must have at least Junior standing to register for this course and completion of a minimum of 30 upper-division credits with FSA prefix. FESHE course code: (C0260)