

Course Descriptions

FSE 2530

Paramedic III

4:4:0

F, Sp

- Prerequisite(s): FSE 2500, FSE 2510, and FSE 2520

For first semester Paramedic students with previous EMS experience. Discusses the Emergency Medical Services system and the role of the paramedic. Covers pre-hospital instruction for the care of the sick and injured including lectures in diabetes, alcoholism, overdose and ingestion, and communicable diseases. Includes pediatrics (PALS), obstetrics, child birth, care of the neonate, geriatrics, incident command system (ICS), interpersonal skills, and critical incident stress. Completers should be qualified to progress to the second semester program.

FSE 2540

Paramedic IV

6:5:3

Su, Sp

- Prerequisite(s): FSE 2500, FSE 2510, FSE 2520, and FSE 2530
- Corequisite(s): FSE 2550

For students who have completed the first semester of the Paramedic program. Discusses the Emergency Medical Services (EMS) system and the role of the paramedic within this system. Teaches the terms, definitions, concepts, and skills of a Paramedic through lecture and hands-on experience. Includes landing zones and safety, high angle rescue, Life-Pack 10, street smarts, death, dying and grieving, handling rape and domestic violence, substance abuse, EVO training, auto extrication, and forensic medicine. Successful completers should be able to meet the requirements listed in the National Standard D.O.T. Paramedic curriculum and the qualifications defined in the Utah Paramedic Training Program Accreditation Standards.

FSE 2550

Paramedic Work Experience

6:0:18

Su, Sp

- Prerequisite(s): FSE 2500, FSE 2510, FSE 2520, and FSE 2530
- Corequisite(s): FSE 2540

For students who have completed the first semester of the Paramedic program. Includes field internships with Paramedic rescue, hospital emergency department, pediatric emergency department, intensive care units, aeromedical service, labor and delivery, and operating room to provide field experience. Successful completers should be able to meet the requirements listed in the National Standard D.O.T. Paramedic curriculum and the qualifications defined in the Utah Paramedic Training Program Accreditation Standards.

FSF—FIRE SCIENCE - FIREFIGHTER

FSF 1000

Survey of Fire and Rescue Emergency Services

3:3:0

Su, F, Sp

Explores career opportunities and job requirements of fire and rescue emergency services. Discusses the various duties within emergency services, including structural fire fighting, wildland fire fighting, technical rescue, hazardous materials control, fire protection, fire investigations, and incident command. Explains the employment testing and selection processes of federal, state, municipal, and industrial emergency service organizations. Develops basic emergency skills in hazard recognition, response organization, and fire extinguisher use.

FSF 1010

Firefighting Fundamentals I

3:3:0

On Sufficient Demand

- Corequisite(s): FSF 1210

Discusses the history and background of the fire service. Teaches terms, definitions, and concepts of NFPA 1001 Professional Qualifications for Firefighters Level I. Includes fire behavior, ventilation rescue, forcible entry, ladders, ropes and knots, self contained breathing apparatus, firestreams, fire hose, salvage, overhaul, fire suppression techniques, communications, fire sprinklers, and fire inspection.

FSF 1210

Firefighting Skills I

4:0:12

On Sufficient Demand

- Corequisite(s): FSF 1010

Teaches basic manipulative skills according to NFPA 1001 Firefighter Professional Standards, Level 1. Includes using forcible entry tools, using self contained breathing apparatus, tying knots and using ropes, handling salvage covers, utilizing hose nozzles and appliances, manipulating ladders, ventilation practices, search for and removal of victims, sprinkler operations, initiating emergency response, and safety procedures. Students are required to furnish their own approved firefighter safety clothing as follows: gloves, boots, helmet, and hood.

FSF 1220

Firefighting Fundamentals and Skills II

3:1:6

On Sufficient Demand

- Prerequisite(s): FSF 1010 or Departmental approval

Teaches intermediate skills as described in NFPA 1001 Level II. Builds upon the basic skills taught in FSF 1010 and introduces new skills and knowledge in water supplies, portable extinguisher practices, inspection techniques, and rescue operations.

FSF 1310

Recruit Candidate Academy--Fundamentals

8:8:0

F, Sp

- Prerequisite(s): Departmental approval or completion of the following with a grade of "C-" or higher: FSF 1000, FSE 1140, ENGH 0990 or higher, and MAT 0990 or higher.
- Corequisite(s): FSF 1320

For students with no previous fire fighting experience. Addresses the cognitive requirements of Firefighter I and II certification for NFPA 1001, Professional Qualifications for Firefighters. Includes orientation and safety behavior, building construction, protective equipment, portable extinguishers, ropes and knots, rescue and extrication, forcible entry, ladders, ventilation, water supply, fire hose, fire streams, fire control, detection and suppression systems, loss control, fire cause determination, communications, fire prevention, and public fire safety education.

FSF 1320

Recruit Candidate Academy--Skills

3:2:3

F, Sp

- Corequisite(s): FSF 1310

For students with no previous fire fighting experience. Addresses the manipulative skill requirements of Firefighter I and II certification per NFPA 1001, Professional Qualifications for Firefighters. Includes use of personal protective equipment and self-contained breathing apparatus, use of ropes and knots, use of hose lines and nozzles, performing ventilation, performing search and rescue, overhauling a fire scene, and identification of possible causes of a fire.

FSF 1330

Recruit Candidate Academy--Operations

3:2:3

F, Sp

- Corequisite(s): FSF 1310, FSF 1320, and FSF 1340

For students with no fire fighting experience. Addresses the operational and performance requirements of Firefighter I and II certification per NFPA 1001, Professional Qualifications for Firefighters. Includes flammable gas fire fighting, vehicle fire fighting, exterior fire fighting, interior fire attack, flat roof ventilation, pitched roof ventilation, hose lays, search and rescue operations, and self-rescue techniques.

FSF 1340

Hazardous Materials First Responder

3:3:0

F, Sp

- Corequisite(s): FSF 1310, FSF 1320, and FSF 1330

For first year Fire Science students. Addresses the Hazardous Materials First Responder requirements of NFPA 472 and 29 CFR 1910.120. Includes definitions and classes of hazardous materials; physiological and toxicological considerations; DOT, UN and NFPA 704 labeling and placarding systems; container types and container identification.

Completers should be able to conduct an incident size-up using the North American Emergency Response Guide, use personal protective equipment and conduct a decontamination procedure. Completers should be prepared to certify at both the Hazardous Materials Awareness and Operations levels.

FSF 1350
Mathematics for the Fire Service
3:3:0 On Sufficient Demand

For those seeking the Associate of Applied Science degree. Introduces basic mathematical operations, including fractions, decimals, percentages, measurements, statistics, graphs, formulas and equations. Completers should be able to apply mathematical skills in solving basic fire service problems.

FSF 2910
Basic Firefighter Internship
3:0:15 Su, F, Sp

•Prerequisite(s): FSF 1330, FSF 1340, Instructor's recommendation and internship coordinator's approval.

For students who have completed the Recruit Candidate Academy courses and desire an opportunity to apply the knowledge, skills, and abilities learned in a realistic environment. Student interns will experience the fire service as a fully integrated member of a fire company in a career fire department. Additionally, the internship will emphasize the student's work ethic, attitude, and ability to adapt to highly stressful and sometimes dangerous situations.

FSH—FIRE SCIENCE - HAZARDOUS MATERIALS

FSH 2410
Hazardous Materials Technician Fundamentals
3:3:0 On Sufficient Demand

•Prerequisite(s): FSF 1340
 Teaches the knowledge requirements of NFPA 471, 472, and CFR 1910.120 regulation for a Hazardous Materials Technician. Includes emergency response plans, classification of materials, ICS roles, personnel protective equipment needs, masks, containment and confinement concepts, decon requirements, termination concepts, toxicological and chemical terms and definitions.

FSH 2420
Hazardous Materials Technician Skills
2:0:6 On Sufficient Demand

•Prerequisite(s): FSH 2410
 Presents the manipulative skill requirements of NFPA 471, 472, and CFR 1910.120 regulation for a Hazardous Materials Technician. Teaches handling simulated incidents, classifying materials, performing in ICS roles, using personnel protective equipment, containment and confinement

operations, setting up and operating decon, diking, plugging, and patching operations.

FSH 2440
Hazardous Materials Chemistry
3:2:3 On Sufficient Demand

Presents in-depth chemical information for hazardous materials responders. Teaches basic knowledge of how to evaluate potential hazards and behaviors of hazardous materials. Provides the underlying reasons for chemical reactions of hazardous materials. Includes decision-making abilities, safe operations, and handling.

FSO—FIRE SCIENCE - OFFICER

FSO 2020
Incident Command
3:3:0 F, Sp

Presents the basic principles of managing an emergency scene through the utilization of an incident command system for simple single unit, to complex multi unit response. Requires use of personnel, equipment, and additional resources to manage an incident by completing a size-up, analyze, develop and implement an action plan, maintain on scene accountability of personnel and resources by following IMS principles. Meets the incident command requirements for Fire Officer I, Fire Officer II, NFPA 1021, Presidential Directive #5, and NIMS compliance.

FSO 2030
Fire Inspector I
3:3:0 F, Sp

For Fire Science and Building Inspection Technology students. Addresses the principles of fire inspection and application of the International Fire Code. Topics include identification of fire hazards, fire prevention measures, inspection techniques, and pre-fire planning. Includes classroom discussion and actual inspections of both under-construction and occupied buildings. Successful completers should be prepared to attain Fire Inspector I certification.

FSO 2050
Fire Protection and Detection Systems
3:3:0 F, Sp

Teaches students to become familiar with the various types of fire protection and detection systems. Explains how each type of system functions, where such systems are required by code and how the various systems are serviced and maintained.

FSO 2060
Fire Service Management and Administration
3:3:0 F, Sp

Addresses the administrative skills and abilities required for Fire Officer II

certification. Includes occupational health and safety concepts, injury prevention, risk management, application of departmental policies and procedures, preparation of budget requests, preparation of news releases, and preparation and maintenance of departmental records and reports.

FSO 2080
Building Construction for the Fire Services
3:3:0 F, Sp

For second year Fire Science students. Explores components of building construction that relate to fire and life safety. Explains construction and design factors to be considered during fire inspections, pre-fire planning and fire fighting operations. Emphasis is placed on firefighter safety.

FSO 2090
Fire Officer I
3:3:0 F, Sp

For second year Fire Science students and experienced firefighters. Addresses the NFPA requirements for Fire Officer I. Discusses human resource management, community and government relations, application of fire department policies, fire investigation procedures, emergency service delivery and safety considerations. Completers should be prepared to certify as Fire Officer I.

FSO 2100
Fire Supervision and Leadership
3:3:0 F, Sp

Designed to bring together basic principles of effective supervision. Includes up-to-date findings from behavioral research practical guidelines for improving supervisory and leadership skills, and applying effective supervisory practices on the job.

FSO 2110
Fire Instructor I and II
3:3:0 F, Sp

Teaches the NFPA 1041 requirements for Instructor I and II. Includes job factors that influence teaching, developing behavior objectives and lesson plans, organizing the learning environment, methods of instruction, training aids, and principles of testing and evaluations. Lab activities include classroom presentations, preparing audio visuals, and developing objectives.

FSO 211A
Fire Service Instructor I
1:1:0 F, Sp

For second year Fire Science students. Addresses the knowledge and skills required to deliver a training lesson from a prepared outline and instructor's guide. Includes psychology of learning, instructional techniques, instructional media, evaluation techniques, and legal considerations. Completers should be prepared to instruct a fire service audience and certify as Fire Service Instructor I.

FSF

FSH

FSO