

FIRE SCIENCE TECHNOLOGY (FS)

FS100 Principles of Emergency Services 3 credits (3 lec hrs/wk)

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 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.

This course may be taken 1 time for credit.

Course classification: CTE

FS105 Firefighter Fundamentals I 2 credits (4 lec lab hrs/wk)

The purpose of this course is to teach the student how to be a professional in the fire service. Topics include fire service culture, regulations, expected behaviors, dress and appearance, among others. Students will be introduced to a professional network and given an opportunity to serve a community.

This course may be taken 1 time for credit.

Course classification: CTE

FS110 Firefighter Fundamentals II 2 credits (4 lec lab hrs/wk)

The purpose of this course is to teach the student how to be a professional in the fire service. Topics include tools and equipment, certification, resume development, interview skills, among others. Students will be introduced to a professional network and given an opportunity to serve a community.

This course may be taken 1 time for credit.

Course classification: CTE

FS115 Firefighter Fundamentals III 2 credits (4 lec lab hrs/wk)

The purpose of this course is to teach the student how to be a professional in the fire service. Topics include fire apparatus, maintenance, ongoing training, professional development, among others. Students will be introduced to a professional network and given an opportunity to serve a community.

This course may be taken 1 time for credit.

Course classification: CTE

FS120 Building Const Related to Fire Svc 3 credits (3 lec hrs/wk)

Prerequisite(s): (FS100)

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.

This course may be taken 1 time for credit.

Course classification: CTE

FS121 Fire Behavior and Combust 3 credits (3 lec hrs/wk)

This course explores the theories and fundamentals of how and why fires start, spread, and are controlled.

This course may be taken 1 time for credit.

Course classification: CTE

FS123 Structural Firefighter I 4 credits (8 lec lab hrs/wk)

This course provides students with the knowledge, skills, and abilities required for Firefighter I (structural firefighting).

This course may be taken 1 time for credit.

Course classification: CTE

FS125 Principles of Fire and Emergency S 4 credits (4 lec hrs/wk)

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.

This course may be taken 1 time for credit.

Course classification: CTE

FS127 Structural Firefighter II 2 credits (4 lec lab hrs/wk)

This course provides students with the knowledge and skills required for the Firefighter II level (structural firefighting).

This course may be taken 1 time for credit.

Course classification: CTE

FS130 Fire Apparatus Driver/Operator 1 credit (2 lec lab hrs/wk)

This course provides students with the knowledge and skills required to safely drive/operate a fire apparatus.

This course may be taken 1 time for credit.

Course classification: CTE

FS131 Wildland Firefighter Type 2 3 credits (1 lec, 4 lec lab hrs/wk)

This course provides students with the knowledge and skills required to gain an entry level position in the fire service (wildland).

This course may be taken 1 time for credit.

Course classification: CTE

FS133 S-215 Fire Operations in the Wildla 2 credits (2 lec hrs/wk)

The purpose of this course is to educate students to operate safely and effectively in a wildland/urban interface incident by using situation awareness, performing structure triage, using pre-planning tools, having a basic understanding of fire behavior, and using strategy and tactics unique to the wildland/urban interface environment (wildland).

This course may be taken 1 time for credit.

Course classification: CTE

FS135 Fire Apparatus Aerial Operator 2 credits (1 lec, 2 lec lab hrs/wk)

This course provides students with the knowledge and skills required to safely drive/operate a fire apparatus equipped with an aerial device.

This course may be taken 1 time for credit.

Course classification: CTE

FS137 S-131 Wildland Firefighter Type 1 1 credit (1 lec hrs/wk)

This course provides students with the knowledge and skills required to meet the training needs of the Firefighter Type 1 (wildland).

This course may be taken 1 time for credit.

Course classification: CTE

FS139 S-290 Intermediate Wildland Fire Be 3 credits (3 lec hrs/wk)

This course provides students with wildland fire behavior knowledge applicable for safe and effective wildland fire management activities (wildfires, fire use, and prescribed fire).

This course may be taken 1 time for credit.

Course classification: CTE

FS141 S-230 Crew Boss (Single Resource) 3 credits (3 lec hrs/wk)

This course provides students with knowledge and skills in the performance of duties associated with the single resource boss position from initial dispatch through demobilization to the home unit (wildland).

This course may be taken 1 time for credit.

Course classification: CTE

FS143 S-212 Wildland Fire Chain Saws 2 credits (1 lec, 2 lec lab hrs/wk)

This course provides students with an introduction to the function, maintenance, and use of internal combustion engine-powered chain saws and their tactical wildland fire application.

This course may be taken 1 time for credit.

Course classification: CTE

FS180 Internship: Fire Science 1-12 credits (3 lab hrs/wk/cr)

Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to explore workplace environments and career options.
This course may be taken 12 times for credit.
Course classification: LDC

FS200 Strategy and Tactics 3 credits (3 lec hrs/wk)

Prerequisite(s): (FS100)
This course provides the principles of fire ground control through utilization of personnel, equipment, and extinguishing agents.
This course may be taken 1 time for credit.
Course classification: CTE

FS202N Field Training and Evaluation Progr 2 credits (2 lec hrs/wk)

The Field Training & Evaluation Program (FTEP) course is designed to provide formal training and practical information for personnel who will become Field Training Officers in their police department. The course, through reference to the "San Jose Model", will consider specific teaching methods applicable to adult learners, performance evaluations using standardized rating procedures, remedial training techniques, and legal issues in recruit training, as well as ethics, leadership, communication, evaluation, retention and dismissal. The instructors for the program are seasoned law enforcement practitioners with advanced academic experiences.
This course may be taken 1 time for credit.
Course classification: CTE

FS205 Fire Prevention 3 credits (3 lec hrs/wk)

This course provides fundamental knowledge relating to the field of fire prevention. Topics include: History and philosophy of fire prevention; organization and operation of a fire prevention bureau; use and application of codes and standards; plans review; fire inspections; fire and life safety education; and fire investigation.
This course may be taken 1 time for credit.
Course classification: CTE

FS210 Hazardous Materials for First Respo 2 credits (2 lec hrs/wk)

This course provides students with the knowledge and skills required to respond to and operate at hazardous materials incidents.
This course may be taken 1 time for credit.
Course classification: CTE

FS215 Legal Aspects of Emergency Services 3 credits (3 lec hrs/wk)

This course will address the federal, state, and local laws that regulate emergency services and include a review of national standards, regulations, and consensus standards.
This course may be taken 1 time for credit.
Course classification: CTE

FS220 Fire Protection Systems 3 credits (3 lec hrs/wk)

Prerequisite(s): (FS105)
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.
This course may be taken 1 time for credit.
Course classification: CTE

FS222 Fire Instructor I 3 credits (3 lec hrs/wk)

This course provides students with the knowledge and skills required to instruct in the fire service.
This course may be taken 1 time for credit.
Course classification: CTE

FS223 Fire Instructor II 3 credits (3 lec lab hrs/wk)

This course provides students with the knowledge and skills required to manage a training program, develop curriculum, and deliver instruction in the fire service.
This course may be taken 1 time for credit.
Course classification: CTE

FS225 Prin of Fire & Emerg Service Admin 3 credits (3 lec hrs/wk)

Prerequisite(s): (FS100)
This course introduces the student to the organization and management of a fire and emergency services department and the relationship of government agencies to the fire service. Emphasis is placed on fire and emergency service, ethics, and leadership from the perspective of the company officer.
This course may be taken 1 time for credit.
Course classification: CTE

FS230 Fire Apparatus Pumper/Operator 2 credits (4 lec lab hrs/wk)

This course provides students with the knowledge and skills required to safely drive/operate a fire apparatus equipped with a fire pump.
This course may be taken 1 time for credit.
Course classification: CTE

FS231 Fire Protection Hydraulics and Wate 3 credits (3 lec hrs/wk)

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 to solve water supply problems.
This course may be taken 1 time for credit.
Course classification: CTE

FS232 Occupational Safety and Health ES 3 credits (3 lec hrs/wk)

This course introduces the basic concepts of occupational health and safety as it relates to emergency service organizations. Topics include risk and hazard evaluation and control procedures for emergency service organizations.
This course may be taken 1 time for credit.
Course classification: CTE

FS280 CWE: Fire Science 1-12 credits (3 lab hrs/wk/cr)

Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to test knowledge learned in the classroom and explore a variety of workplaces in which to apply that knowledge.
This course may be taken 12 times for credit.
Course classification: LDC

FS5239 NFPA Instructor I 3 credits (3 lec hrs/wk)

The course prepares the program participants for planning instruction using a variety of instructional methods teaching diverse learners and evaluating course outcomes. This course meets the competency standards Fire Service Instructor I certification.
This course may be taken 1 time for credit.
Course classification: CTE

FS5246 NFPA Firefighter II 4 credits (4 lec hrs/wk)

Students completing this course have met the NFPA 1001 Standards for Certification as NFPA Firefighter IIs.
This course may be taken 1 time for credit.
Course classification: CTE

FS5263 NFPA Pumper Operator 2.50 credits (2 lec, 1 lec lab hrs/wk)

This course meets the national standard for vehicle driver/operator. The course is designed to educate firefighters who are responsible for operating fire apparatus with fire pumps.
This course may be taken 1 time for credit.
Course classification: CTE

FS5276 S130/190 Wildland Firefighter Type 3 credits (3 lec hrs/wk)

Firefighters successfully completing this course will be qualified to suppress wildland fires under close supervision. This training is required for all personnel prior to certification as a firefighter (Type 2) under the national wildland qualification system.

This course may be taken 1 time for credit.

Course classification: CTE

FS5678 Collapse of Burning Buildings 1 credit (1 lec hrs/wk)

Prerequisite(s): (FS105)

Structural collapse is one of the leading causes of firefighter deaths.

This course is designed to warn firefighters how buildings collapse when destroyed by fire.

This course may be taken 1 time for credit.

Course classification: CTE

FS9173 S-131: Adv Frfr Trg 0.50 credits

Prerequisite(s): (FS5276)

This course is suggested training for individuals who wish to become qualified in the first level supervision position of advanced firefighter/squad boss (FFT1) in wildland fire management.

This course may be taken 1 time for credit.

Course classification: CTE

FS9175 Firefighter Safety 3 credits (2 lec, 1 lec lab hrs/wk)

Course is designed to explore numerous aspects of firefighter safety.

Students will explore those safety hazards and possible mitigation techniques for ensuring their safety.

This course may be taken 1 time for credit.

Course classification: CTE

FS9370 Rapid Intervention Teams-Fire 1.50 credits (1 lec, 1 lec lab hrs/wk)

Prerequisite(s): (FS105)

The course will provide students with the skills necessary to perform as a member of a Rapid Intervention Team (RIT). The course is based on the 4-Phase Standard Operating Guideline that requires the use of locate, access, stabilize, and transfer procedures for the rescue of firefighters.

This course may be taken 1 time for credit.

Course classification: CTE

FS9380 S215 Fire Ops Urban Interface 2 credits (2 lec hrs/wk)

Prerequisite(s): (FS5276)

This course is designed to meet the training needs for initial attack incident commanders (wildland suppression) and company officers (suppression) confronting wildland fires that threaten life, property, and improvements.

This course may be taken 1 time for credit.

Course classification: CTE

FS996Q Fire Science Driver 2 credits (1 lec, 1 lec lab hrs/wk)

This course is designed to provide firefighter student with concepts in emergency driving defensive driving Oregon laws/policies and vehicle maintenance. Students will also receive skills and knowledge to drive and maintain emergency vehicles.

This course may be taken 1 time for credit.

Course classification: CTE