

FIRE SCIENCE TECHNOLOGY (FIR)

FIR 101 (3 credit hours)

Basic Firefighting I

Introduces students to topics such as: fire department organization, firefighter safety, building construction, fire dynamics, extinguishers, and ladders. Lecture: 3 hours (45 contact hours).

Attributes: Course Also Offered in Modules, Technical

Components: LEC: Lecture

FIR 102 (3 credit hours)

Basic Firefighting II

Introduces students to topics such as: personal protective equipment, fire hose practices, and ropes. Lecture 3 credits (45 contact hours).

Attributes: Course Also Offered in Modules, Technical

Components: LEC: Lecture

FIR 103 (3 credit hours)

Basic Firefighting III

Introduces students to topics such as: communications, structural search & rescue, tactical ventilation, overhaul/property conservation, and fire origin/cause determination. Lecture 3 credits (45 contact hours).

Attributes: Course Also Offered in Modules, Technical

Components: LEC: Lecture

FIR 104 (3 credit hours)

Basic Firefighting IV

Introduces students to topics such as: equipment maintenance, hose streams, community risk reduction, incident command, and forcible entry. Lecture 3 credits (45 contact hours).

Attributes: Course Also Offered in Modules, Technical

Components: LEC: Lecture

FIR 105 (3 credit hours)

Fire Suppression

Introduces students to topics such as: structural fire attack; supporting fire protection systems; vehicle fires; exterior class A fires; foam firefighting; liquid and gas fires; ground cover fires; building materials and dangerous building conditions associated with the effects of fire suppression activities. Lecture 3 credits (45 contact hours).

Pre-requisite: FIR 101, FIR 102, FIR 103, FIR 104.

Attributes: Course Also Offered in Modules, Technical

Components: LEC: Lecture

FIR 106 (3 credit hours)

Intro to Special Responses

Introduces students to hazardous materials response at the operations level and specialized responses to incidents involving terrorism, weapons of mass destruction, and Active Shooter Hostile Events Response (ASHER). Lecture: 3 credits (45 contact hours).

Attributes: Technical

Components: LEC: Lecture

FIR 107 (3 credit hours)

Intro to Rescue & Patient Care

Introduces students to topics such as: first aid, cardiopulmonary resuscitation, technical rescue awareness concepts, and vehicle extrication. 3 credits (45 contact hours).

Attributes: Course Also Offered in Modules, Technical

Components: LEC: Lecture

FIR 198 (3 credit hours)

Practicum

Introduces students to a supervised on-the-job work experience related to the student's educational program. Practicum: 3 credits (180 contact hours).

Pre-requisite: FIR 105 or Instructor Consent.

Attributes: Technical

Components: PCM: Practicum

FIR 202 (3 credit hours)

Fire Instructor I

Prepares students with basic knowledge to perform at the Instructor I Level, as defined by National Fire Protection Association Standard 1041. Lecture: 3 credits (45 contact hours)

Pre-requisite: Instructor Consent.

Attributes: Technical

Components: LEC: Lecture

FIR 203 (3 credit hours)

Fire Instructor II

Prepares students with basic knowledge to perform at the Instructor II Level, as defined by National Fire Protection Association Standard 1041. Lecture: 3 credits (45 contact hours).

Pre-requisite: FIR 202 or Instructor Consent.

Attributes: Technical

Components: LEC: Lecture

FIR 205 (3 credit hours)

Fire Officer I

Prepares students with basic knowledge to perform at the Fire Officer I Level, as defined by National Fire Protection Association Standard 1021. Pre-requisite: Instructor Consent. Lecture: 3 credits (45 contact hours).

Attributes: Technical

Components: LEC: Lecture

FIR 206 (3 credit hours)

Fire Officer II

Prepares students with basic knowledge to perform at the Fire Officer II Level, as defined by National Fire Protection Association Standard 1021. Lecture: 3 credits (45 contact hours).

Pre-requisite: FIR 205 or Instructor Consent.

Attributes: Technical

Components: LEC: Lecture

FIR 207 (3 credit hours)

Fire Officer III

Prepares students with basic knowledge to perform at the Fire Officer III Level, as defined by National Fire Protection Association Standard 1021. Lecture: 3 credits (45 contact hours).

Pre-requisite: FIR 206 or Instructor Consent.

Attributes: Technical

Components: LEC: Lecture

FIR 208 (3 credit hours)

Fire Officer IV

Prepares students with basic knowledge to perform at the Fire Officer IV Level, as defined by National Fire Protection Association Standard 1021. Lecture: 3 credits (45 contact hours).

Pre-requisite: FIR 207 or Instructor Consent.

Attributes: Technical

Components: LEC: Lecture

FIR 210 (3 credit hours)**Aircraft Rescue Firefighting**

Prepares students with basic knowledge to perform as an airport firefighter, as defined by National Fire Protection Association Standard 1003. Lecture: 3 credits (45 contact hours).

Attributes: Technical

Components: LEC: Lecture

FIR 212 (3 credit hours)**Driver/Operator - Pumper**

Prepares students with basic knowledge to perform as an pumper driver/operator, as defined by National Fire Protection Association Standard 1002. Lecture: 3 credits (45 contact hours).

Pre-requisite: Instructor Consent.

Attributes: Technical

Components: LEC: Lecture

FIR 213 (3 credit hours)**Driver/Operator - Aerial**

Prepares students with basic knowledge to perform at as an aerial driver/operator, as defined by National Fire Protection Association Standard 1002. Lecture: 3 credits (45 contact hours).

Pre-requisite: Instructor Consent.

Attributes: Technical

Components: LEC: Lecture

FIR 215 (3 credit hours)**Emergency Medical Responder**

Introduces students to wide variety of topics in patient care at the emergency medical responder level as outlined in the United States Department of Transportation (USDOT) national standard curriculum. Lecture: 3 credits (45 contact hours).

Attributes: Technical

Components: LEC: Lecture

FIR 220 (3 credit hours)**Hazardous Materials Technician**

Prepares students with basic knowledge to perform as a hazardous materials technician, as defined by National Fire Protection Association Standard 1072. Lecture: 3 credits (45 contact hours).

Pre-requisite: FIR 106 or FIR 1062 Hazardous Material Operations.

Attributes: Technical

Components: LEC: Lecture

FIR 225 (1-3 credit hours)**Special Topics in Fire Science**

Provides advanced study on a selected topic or emerging issue in the fire service. May be repeated to a maximum of six credits under different subtitles. Lecture: 1 credit (15 contact hours).

Pre-requisite: Consent of Instructor.

Attributes: Technical

Components: LEC: Lecture

FIR 230 (6 credit hours)**Emergency Medical Technician**

Introduces students to wide variety of topics in patient care at the emergency medical technician level as outlined in the United States Department of Transportation (USDOT) national standard curriculum. Integrated Lecture: 2 credits (30 contact hours). Integrated Laboratory: 4 credits (120 contact hours).

Pre-requisite: Minimum ACT Reading Score of 15 or Consent of Instructor.

Attributes: Technical

Components: LAI: Integrated Laboratory, LEI: Integrated Lecture

FIR 240 (4 credit hours)**Fire Inspector I**

Prepares students with basic knowledge to perform at the Fire Inspector I Level, as defined by National Fire Protection Association Standard 1031. Lecture: 4 credits (60 contact hours).

Pre-requisite: FIR 106 or FIR 1061 or Instructor Consent.

Attributes: Technical

Components: LEC: Lecture

FIR 260 (3 credit hours)**Principles of Emergency Services**

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; and organization and function of public and private fire protection services. Lecture: 3 credits (45 contacts).

Attributes: Technical

Components: LEC: Lecture

FIR 261 (3 credit hours)**Building Construction**

Provides students with an introduction to construction, design of structures, and the components of building construction as related to firefighter and life safety. Lecture: 3 credits (45 contact hours).

Pre- or co-requisite: FIR 260 or Instructor Consent.

Attributes: Technical

Components: LEC: Lecture

FIR 262 (3 credit hours)**Fire Behavior and Combustion**

Explores the theories and fundamentals of how and why fires start, spread, and how they are controlled. Lecture: 3 credits (45 contact hours).

Pre- or co-requisite: FIR 260 or Instructor Consent.

Attributes: Technical

Components: LEC: Lecture

FIR 263 (3 credit hours)**Fire Service Safety & Wellness**

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. Lecture: 3 credits (45 contacts).

Pre- or co-requisite: FIR 260 or Consent of Instructor.

Attributes: Technical

Components: LEC: Lecture

FIR 264 (3 credit hours)**Fire Prevention**

Provides fundamental knowledge relating to the field of fire prevention including: history and philosophy of fire prevention; organization and operation of a fire prevention bureau; use and application of codes and standards; and fire investigation. Lecture: 3 credits (45 contact hours).

Pre- or co-requisite: FIR 260 Or Instructor Consent.

Attributes: Technical

Components: LEC: Lecture

FIR 265 (3 credit hours)**Fire Protection Systems**

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. Lecture: 3 credits (45 contact hours).

Pre- or co-requisite: FIR 260 or Instructor Consent.

Attributes: Technical

Components: LEC: Lecture

FIR 280 (3 credit hours)**Fire Service Legal Aspects**

Addresses the Federal, State, and local laws that regulate emergency services and include a review of national standards, regulations, and consensus standards. Lecture: 3 credits (45 contact hours).

Pre-requisite: Instructor Consent.

Attributes: Technical

Components: LEC: Lecture

FIR 281 (3 credit hours)**Fire Service Administration**

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. Lecture: 3 credits (45 contact hours).

Pre-requisite: Instructor Consent.

Attributes: Technical

Components: LEC: Lecture

FIR 282 (3 credit hours)**Strategy and Tactics**

Provides the principles of fire ground control through utilization of personnel, equipment, and extinguishing agents. Lecture: 3 credits (45 contact hours).

Pre-requisite: Instructor Consent.

Attributes: Technical

Components: LEC: Lecture