

FIRE TECHNOLOGY

Contact Information

Division

Business and Technology

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Overview

The Fire Technology program prepares students for a career in the fire service and provides educational and training opportunities for employed and volunteer firefighters.

The Associate Degree and Certificate programs incorporate the standardized Fire Technology curriculum identified by the offices of the California State Chancellor and State Fire Marshal. Elective courses are those developed under the guidelines of related fire service training and educational programs such as CFSTES (California Fire Service Training and Education System), DOT (Department of Transportation), FEMA (Federal Emergency Management Agency), F.S.T.E.P. (Fire Service Training and Education Program) and NFA (National Fire Academy).

Most Fire Technology courses, up to 30 units, may be transferred to CSU.

Faculty

Jason Hemler

Assistant Professor/Coordinator, Fire Technology

B.S., California State University, Long Beach

M.S., California State University, Long Beach

German Sierra

Assistant Professor, Fire Technology

A.A., Foothill College

A.S., Foothill College

Fire Technology Advisory Committee

- Nevada County Fire Chiefs, Nevada County, CA
- Nevada County Training Officers, Nevada County, CA
- Nevada/Placer County (East Side) Fire Chiefs, Nevada and Placer Counties, CA
- Nevada/Placer County (East Side) Training Officers, Nevada and Placer Counties, CA
- Placer County Fire Chiefs, Placer County, CA
- Placer County Training Officers, Placer County, CA
- USFS-Tahoe National Forest, Nevada City, CA

Firefighter Academy

The Firefighter Academy is offered through partnerships with the Placer and Nevada County Fire Chiefs' Associations and The City of Roseville Fire Department. Sierra College is recognized by the California State Fire Marshal and the State Board of Fire Services as an Accredited Regional Training Program.

Required Academy prerequisites are FIRE 0001 and HSCI 0002. Students accepted into the Academy must enroll in FIRE 0100 (576 hours) and FIRE 0100A (80 hours).

The Firefighter Academy is offered in two different formats: 1) Full-time Monday through Friday and 2) an extended format (evenings and weekend classes), which enables students to maintain employment while preparing for a career in the fire service. The fall Academy is held late July through December, in the spring, January through May, and at our Nevada County Campus January to May. The required 80% academic standard for the Firefighter I Academy is rigorous. Candidates need to be aware at the outset that this will place extraordinary demands on their time and resources.

Individuals completing the Academy and passing the certification testing process (FIRE 101), which includes State Fire Training didactic and manipulative skills testing, may obtain their State and National certified Firefighter I Certificate. The Fire Academy also incorporates all Firefighter II training requirements and after successfully completing the certification testing process, the task book and experience requirement, one year as a volunteer or reserve firefighter or six months as a full-time paid firefighter with a California fire department, candidates may obtain Firefighter II certification. The California State Fire Marshal's Firefighter I and II curriculum is nationally accredited by the International Fire Service Accreditation Congress (IFSAC) and the National Board on Fire Service Professional Qualifications (Pro Board). Other Certificates of Training awarded upon completion of the Academy include: (subject to change)

- Introduction to the Incident Command System—IS 100 and IS 200
- National Incident Management System (NIMS) IS 700A, and IS 800
- Confined Space Awareness
- Hazardous Materials First Responder—Operational
- Hazardous Materials First Responder—Decontamination
- Fire Control 3B
- Fire Control 4
- Firefighter Survival
- Vehicle Extrication
- CAL FIRE Basic Wildland Firefighter
- S-130 Basic Wildland Firefighter
- S-190 Beginning Fire Behavior
- L-180 Human Factors in the Wildland Fire Service
- S-134 LCES

Acceptance into the Fire Academy is by an application process which includes a physical examination upon acceptance into the Academy. Applications for the Academy are available in April for the fall academy and October for the spring academy.

FIREFIGHTER CERTIFICATION TESTING

This 56 hour course is designed to meet State Fire Training (SFT) requirements for Firefighter 1 and Firefighter II including capstone knowledge and skills necessary for Firefighter I & II certification. Upon

successful completion, students receive a pass letter from SFT and a Firefighter I & II pass certificate from the college.

FIRE 101 Firefighter 1 & 2 Certification Testing 1

FIREFIGHTER II ACADEMY

This course is designed to meet the State Fire Marshal's training and certification requirements for Firefighter II.

Fire 102 Firefighter II Academy 4.5

Fire Company Officer Courses

The following Fire Technology courses are part of the State Fire Marshal's certification track for FIRE OFFICER. These courses are designed for individuals currently employed as professional or volunteer firefighters. Individuals without this experience will be unable to contribute to the educational process and utilize the information in a timely manner.

Code	Title	Units
FIRE 0174	Human Resource Management for Company Officers - CO 2A	2
FIRE 0175	General Administrative Functions for Company Officers - CO 2B	1
FIRE 0176	Fire Inspections and Investigation for Company Officers - CO 2C	2
FIRE 0177	All-Risk Command Operations for Company Officers - CO 2D	1.5
FIRE 0178	Wildland Incident Operations for Company Officers - CO 2E	1.5
FIRE 0179	Fire and Emergency Services Instructor 1	1.5

Chief Officer Courses

The following Fire Technology courses are part of the State Fire Marshal's certification track for CHIEF FIRE OFFICER and are currently part of Sierra College's curriculum. These courses are intended for individuals currently employed as professional or volunteer fire officers who hold a Chief Officer position. Individuals without this experience will be unable to contribute to the educational process and utilize the information in a timely manner.

Code	Title	Units
FIRE 0190	Human Resource Management for Chief Fire Officers - 3A	1
FIRE 0191	Budget and Fiscal Responsibilities for Chief Fire Officers - 3B	1
FIRE 0192	General Administrative Functions for Chief Fire Officers - 3C	1
FIRE 0193	Chief Fire Officer 3D: Command of Expanding All-Hazard Incidents	1

Incident Command Courses

The following courses are part of the State Fire Marshal's certification track for Company Officer, Chief Fire Officer and Executive Chief Fire Officer. These courses are intended for individuals currently employed as full-time or volunteers firefighters seeking State Fire Training certification or general knowledge of the Incident Command System.

Code	Title	Units
FIRE 0241	I-200: Incident Command System	0.5
FIRE 0242	I-300: Intermediate ICS for Expanding Incidents	1
FIRE 0243	I-400: Advanced ICS for Complex Incidents	0.5

Fire Training Instructor Courses

The following courses are intended for firefighters seeking to become certified State Fire Marshal Fire Training Instructors.

Code	Title	Units
FIRE 0179	Fire and Emergency Services Instructor 1	1.5
FIRE 0180	Fire and Emergency Services Instructor 2	1.5

Fire Investigator Courses

These courses are intended for firefighters seeking to become certified State Fire Marshal Fire Investigators.

Code	Title	Units
FIRE 0181	Fire Investigation 1A, Basic Fire Investigation	2
FIRE 0182	Fire Investigation 1B, Evidence and Documentation	1.5
FIRE 0183	Fire Investigation 1C, Preparation for Legal Proceedings	2

Degrees/Certificates

Associate Degree

- Fire Company Officer (p. 2)
- Fire Technology (p. 3)

Certificate of Achievement

- Fire Academy (p. 4)
- Fire Company Officer (p. 4)
- Fire Technology (p. 3)

Fire Company Officer

AS Degree

Successful completion of the Degree, Fire Officer/Company Officer, prepares the student with the knowledge, skills and abilities necessary to promote and be a successful first-line supervisor. The program includes California State recognized course work that directly benefit students who may wish to promote within the fire service to a supervisory position. Some variation in degree requirements may exist for a particular program; therefore, it is essential that students refer to the catalog of their intended institution and contact a counselor to ensure that all required coursework is completed. For the degree, students must fulfill the following major requirements with grades of "C" or better, complete a minimum of 60 degree-applicable semester units (12 of which must be completed at Sierra College) with a grade point average of at least 2.0 and complete one of the following three general education patterns:

- Sierra College Associate Degree Requirements (<http://catalog.sierracollege.edu/archive/2023-2024/student-resources/general-education/associate-degree-requirements/>);
- California State University General Education Breadth (<http://catalog.sierracollege.edu/archive/2023-2024/student-resources/general-education/california-state-university-general-education-breadth-requirements/>) pattern;
- Intersegmental General Education Transfer Curriculum (IGETC). (<http://catalog.sierracollege.edu/archive/2023-2024/student-resources/general-education/intersegmental-general-education-transfer-curriculum-igetc/>)

- general-education/california-state-university-general-education-breadth-requirements/) pattern;
- Intersegmental General Education Transfer Curriculum (IGETC). (<http://catalog.sierracollege.edu/archive/2023-2024/student-resources/general-education/intersegmental-general-education-transfer-curriculum-igetc/>)

Required Courses

Code	Title	Units
FIRE 0078	Fire Tactics and Strategy	3
FIRE 0097	Ethical Leadership in the Classroom	0.5
FIRE 0172	Intermediate Wildland Fire Behavior S-290	2
FIRE 0173	Hazardous Materials - Incident Commander	1
FIRE 0174	Human Resource Management for Company Officers - CO 2A	2
FIRE 0175	General Administrative Functions for Company Officers - CO 2B	1
FIRE 0176	Fire Inspections and Investigation for Company Officers - CO 2C	2
FIRE 0177	All-Risk Command Operations for Company Officers - CO 2D	1.5
FIRE 0178	Wildland Incident Operations for Company Officers - CO 2E	1.5
FIRE 0179	Fire and Emergency Services Instructor 1	1.5
FIRE 0241	I-200: Incident Command System	0.5
Select 3 units from the following:		3
BUS 0265	Business Communications	
BUS 0276	Organizational Behavior and Human Relations	
BUS 0277	Human Resource Management	
ENGL 0001A	College Reading, Writing and Research	
ENGL 0012	Writing in the Workplace	
Total Units		19.5

Fire Technology

AA or AS

For the degree, students must fulfill the following major requirements with grades of "C" or better, complete a minimum of 60 degree-applicable semester units (12 of which must be completed at Sierra College) with a grade point average of at least 2.0 and complete one of the following three general education patterns:

- Sierra College Associate Degree Requirements (<http://catalog.sierracollege.edu/archive/2023-2024/student-resources/general-education/associate-degree-requirements/>);
- California State University General Education Breadth (<http://catalog.sierracollege.edu/archive/2023-2024/student-resources/>)

Required Courses

Code	Title	Units
FIRE 0001	Fire Protection Organization	3
FIRE 0003	Fire Behavior and Combustion	3
FIRE 0004	Fire Protection Equipment and Systems	3
FIRE 0005	Fire Prevention Technology	3
FIRE 0008	Building Construction for Fire Protection	3
FIRE 0010	Principles of Fire and Emergency Services Safety and Survival	3
Select 12 units from the following:		12
ADMJ 0077	Terrorist Tactics and the Role of the First Responder	
FIRE 0007	Fundamentals of Fire Service Operations	
FIRE 0050	Basic Wildland Firefighter Training	
FIRE 0073	Fire Hydraulics	
FIRE 0074	Fire Apparatus and Equipment	
FIRE 0075	Wildland Fire Control	
FIRE 0078	Fire Tactics and Strategy	
FIRE 0079	Fire Investigation	
FIRE 0080	Introduction to Public Safety Dispatch (ALso ADMJ 0078, HSCI 0080)	
FIRE 0095	Internship in Fire Technology	
FIRE 0098	Fire Technology Career Pathways	
FIRE 0099	Introduction to Fire Academy	
FIRE 0100	Firefighter Academy	
FIRE 0100A	Fire Academy Physical Training	
FIRE 0101	Firefighter Certification Testing	
FIRE 0102	Firefighter II Training	
FIRE 0170	Hazardous Materials - Operational Level	
FIRE 0171	Introduction to Wildland Fire Behavior S-190	
FIRE 0172	Intermediate Wildland Fire Behavior S-290	
FIRE 0173	Hazardous Materials - Incident Commander	
FIRE 0174	Human Resource Management for Company Officers - CO 2A	
FIRE 0175	General Administrative Functions for Company Officers - CO 2B	
FIRE 0176	Fire Inspections and Investigation for Company Officers - CO 2C	
FIRE 0177	All-Risk Command Operations for Company Officers - CO 2D	
FIRE 0178	Wildland Incident Operations for Company Officers - CO 2E	

FIRE 0179	Fire and Emergency Services Instructor 1	
FIRE 0180	Fire and Emergency Services Instructor 2	
FIRE 0181	Fire Investigation 1A, Basic Fire Investigation	
FIRE 0182	Fire Investigation 1B, Evidence and Documentation	
FIRE 0183	Fire Investigation 1C, Preparation for Legal Proceedings	
FIRE 0190	Human Resource Management for Chief Fire Officers - 3A	
FIRE 0191	Budget and Fiscal Responsibilities for Chief Fire Officers - 3B	
FIRE 0192	General Administrative Functions for Chief Fire Officers - 3C	
FIRE 0193	Chief Fire Officer 3D: Command of Expanding All-Hazard Incidents	
FIRE 0241	I-200: Incident Command System	
FIRE 0242	I-300: Intermediate ICS for Expanding Incidents	
FIRE 0243	I-400: Advanced ICS for Complex Incidents	
SPAN 0019	Spanish for Public Safety	
Total Units		30

Fire Academy

Certificate of Achievement

This certificate program provides a comprehensive understanding of the skills necessary for successful employment in the Fire Service industry. This program is designed to meet the needs of students interested in seeking entry-level firefighting positions by completing a California State Fire Training Accredited Region Training Fire Academy. Fire Academy Certificate of Achievement Certification includes the completion of FIRE 0100 and FIRE 0100A. Corerequisites for FIRE 100 include: FIRE 1 and HSCI 2 (Fire Protection Organization & Emergency Medical Technician). Career opportunities include: Seasonal Firefighter, Intern Firefighter, Volunteer Firefighter, and Career Firefighter. A certificate is designed to provide career technical skills; it is not equivalent to an associate degree.

Required Courses

Code	Title	Units
FIRE 0100	Firefighter Academy	17
FIRE 0100A	Fire Academy Physical Training	2.5
Total Units		19.5

Fire Company Officer

Certificate of Achievement

This certificate program provides a comprehensive understanding of the skills necessary for success as a Company Officer/first line supervisor in the Fire Service industry. This program is designed to meet the needs of in-service professionals interested in promoting to a supervisory position and for those seeking to advance their knowledge in this area. Fire Company Officer Certificate of Achievement Certification includes the completion of the courses listed below. Career opportunities include: Fire Captain, Fire Engineer/Driver-Operator, or Lieutenant.

A certificate is designed to provide career technical skills; it is not equivalent to an associate degree.

Required Courses

Code	Title	Units
FIRE 0078	Fire Tactics and Strategy	3
FIRE 0097	Ethical Leadership in the Classroom	0.5
FIRE 0172	Intermediate Wildland Fire Behavior S-290	2
FIRE 0173	Hazardous Materials - Incident Commander	1
FIRE 0174	Human Resource Management for Company Officers - CO 2A	2
FIRE 0175	General Administrative Functions for Company Officers - CO 2B	1
FIRE 0176	Fire Inspections and Investigation for Company Officers - CO 2C	2
FIRE 0177	All-Risk Command Operations for Company Officers - CO 2D	1.5
FIRE 0178	Wildland Incident Operations for Company Officers - CO 2E	1.5
FIRE 0179	Fire and Emergency Services Instructor 1	1.5
FIRE 0241	I-200: Incident Command System	0.5
Total Units		16.5

Fire Technology

Certificate of Achievement

A certificate is designed to provide career technical skills; it is not equivalent to an associate degree.

Required Courses

Code	Title	Units
FIRE 0001	Fire Protection Organization	3
FIRE 0003	Fire Behavior and Combustion	3
FIRE 0004	Fire Protection Equipment and Systems	3
FIRE 0005	Fire Prevention Technology	3
FIRE 0008	Building Construction for Fire Protection	3
FIRE 0010	Principles of Fire and Emergency Services Safety and Survival	3

Select 12 units from the following:

ADMJ 0077	Terrorist Tactics and the Role of the First Responder	12
FIRE 0007	Fundamentals of Fire Service Operations	
FIRE 0050	Basic Wildland Firefighter Training	
FIRE 0073	Fire Hydraulics	
FIRE 0074	Fire Apparatus and Equipment	
FIRE 0075	Wildland Fire Control	
FIRE 0078	Fire Tactics and Strategy	
FIRE 0079	Fire Investigation	
FIRE 0080	Introduction to Public Safety Dispatch (ALso ADMJ 0078, HSCI 0080)	
FIRE 0095	Internship in Fire Technology	

FIRE 0098	Fire Technology Career Pathways
FIRE 0099	Introduction to Fire Academy
FIRE 0100	Firefighter Academy
FIRE 0100A	Fire Academy Physical Training
FIRE 0101	Firefighter Certification Testing
FIRE 0102	Firefighter II Training
FIRE 0170	Hazardous Materials - Operational Level
FIRE 0171	Introduction to Wildland Fire Behavior S-190
FIRE 0172	Intermediate Wildland Fire Behavior S-290
FIRE 0173	Hazardous Materials - Incident Commander
FIRE 0174	Human Resource Management for Company Officers - CO 2A
FIRE 0175	General Administrative Functions for Company Officers - CO 2B
FIRE 0176	Fire Inspections and Investigation for Company Officers - CO 2C
FIRE 0177	All-Risk Command Operations for Company Officers - CO 2D
FIRE 0178	Wildland Incident Operations for Company Officers - CO 2E
FIRE 0179	Fire and Emergency Services Instructor 1
FIRE 0180	Fire and Emergency Services Instructor 2
FIRE 0181	Fire Investigation 1A, Basic Fire Investigation
FIRE 0182	Fire Investigation 1B, Evidence and Documentation
FIRE 0183	Fire Investigation 1C, Preparation for Legal Proceedings
FIRE 0190	Human Resource Management for Chief Fire Officers - 3A
FIRE 0191	Budget and Fiscal Responsibilities for Chief Fire Officers - 3B
FIRE 0192	General Administrative Functions for Chief Fire Officers - 3C
FIRE 0193	Chief Fire Officer 3D: Command of Expanding All-Hazard Incidents
FIRE 0241	I-200: Incident Command System
FIRE 0242	I-300: Intermediate ICS for Expanding Incidents
FIRE 0243	I-400: Advanced ICS for Complex Incidents
SPAN 0019	Spanish for Public Safety

Total Units **30**

Courses

Understanding course descriptions (<http://catalog.sierracollege.edu/archive/2023-2024/student-resources/course-information/understanding-course-descriptions/>)

FIRE 0001. Fire Protection Organization

Units: 3

Hours: 54 lecture

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. (C-ID FIRE 100X) (CSU-with unit limitation)

FIRE 0003. Fire Behavior and Combustion

Units: 3

Advisory: Completion with grade of "C" or better or concurrent enrollment in FIRE 1

Hours: 54 lecture

Theory and fundamentals of how and why fires start, spread, and are controlled; an in-depth study of fire chemistry and physics, fire characteristics of materials, extinguishing agents, and fire control techniques. (C-ID FIRE 140X) (CSU-with unit limitation)

FIRE 0004. Fire Protection Equipment and Systems

Units: 3

Advisory: Completion with grade of "C" or better or concurrent enrollment in FIRE 1

Hours: 54 lecture

Provides information relating to the features of design and operation of fire alarm systems, water-based suppression systems, special hazard fire suppression systems, water supply for fire protection and portable fire extinguishers in accordance with local, state and national guidelines. (C-ID FIRE 120X) (CSU-with unit limitation)

FIRE 0005. Fire Prevention Technology

Units: 3

Advisory: Completion with grade of "C" or better or concurrent enrollment in FIRE 1

Hours: 54 lecture

Fundamental knowledge relating to the field of fire prevention. Topics include: history and philosophy of fire prevention; organization of a fire prevention bureau; use and application of codes and standards; plans review; fire inspections; fire and life safety education; and fire investigation. (C-ID FIRE 110X) (CSU-with unit limitation)

FIRE 0007. Fundamentals of Fire Service Operations

Units: 3

Advisory: Completion with grade of "C" or better or concurrent enrollment in FIRE 1

Hours: 54 lecture

Fundamentals of fire department organization, management, and resources, and the use of those resources to control various emergencies. Includes safety, operational considerations, evaluation of tactics and strategies with a focus on making behavioral changes for positive outcomes. (CSU-with unit limitation)

FIRE 0008. Building Construction for Fire Protection

Units: 3

Advisory: Completion with grade of "C" or better or concurrent enrollment in FIRE 1

Hours: 54 lecture

Components of building construction related to firefighter and life safety. Elements of construction and design of structures as key factors when inspecting buildings, preplanning fire operations, and operating at emergencies. (C-ID FIRE 130X) (CSU-with unit limitation)

FIRE 0010. Principles of Fire and Emergency Services Safety and Survival*Units: 3*

Hours: 54 lecture

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. (C-ID FIRE 150X) (CSU-with unit limitation)

FIRE 0028. Independent Study*Units: 1-3*

Designed for students interested in furthering their knowledge at an independent study level in an area where no specific curriculum offering is currently available. Independent study might include, but is not limited to, research papers, special subject area projects, and research projects. See Independent Study page in catalog. (CSU-with unit limitation)

FIRE 0050. Basic Wildland Firefighter Training*Units: 3*

Hours: 61 (54 lecture, 7 laboratory)

Training in proper techniques to effectively and safely perform as a member of a fire crew in controlling and suppressing wildfire. Includes physics of fire behavior, complexities and inter-relationships of weather, topography, and wildland fuel beds in fire behavior, Incident Management Organization, personal safety, situational awareness and hazard recognition. Meets NWCG S-130, S-190, S-134, L-180 and I-100 requirements. (CSU-with unit limitation)

FIRE 0073. Fire Hydraulics*Units: 3*

Hours: 54 lecture

Investigate the principles and characteristics of water and water flow, water supply systems, fire apparatus and pumps, and fire streams. Review of applied mathematics; hydraulic laws; and application of formulas and mental calculation to hydraulics and water supply problems, as applied to the fire service. (CSU-with unit limitation)

FIRE 0074. Fire Apparatus and Equipment*Units: 3*

Advisory: Completion with grade of "C" or better or concurrent enrollment in FIRE 1

Hours: 54 lecture

Principles and techniques for maintaining and operating fire service pumping and other mobile apparatus. Fire service equipment and apparatus troubleshooting; principles and techniques of preventive maintenance; construction and operation of fire service pumps and pump accessories; basic highway operating techniques for fire apparatus; fire apparatus specifications and testing procedures. (CSU-with unit limitation)

FIRE 0075. Wildland Fire Control*Units: 3*

Hours: 54 lecture

Principles and techniques of wildland fire prevention, behavior, control, and suppression. Covers legal areas of wildland fire protection, mutual aid, fire investigating and reporting methods, and ecology factors of wildland and urban interface fires. Complies with S-190, Basic Wildland Fire Behavior certification. (CSU-with unit limitation)

FIRE 0078. Fire Tactics and Strategy*Units: 3*

Prerequisite: Completion of FIRE 1 with grade of "C" or better or equivalent as determined by the Fire Technology Program Coordinator
Hours: 54 lecture

Provides the principles of fire control through utilization of manpower, equipment, extinguishing agents, fire command and control procedures. (C-ID FIRE 160X) (CSU)

FIRE 0079. Fire Investigation*Units: 3*

Advisory: Completion of FIRE 1 and 8 with grades of "C" or better
Hours: 54 lecture

Introduces the general practices involved in fire investigation. Topics include determining the cause of fires (accidental, suspicious, and incendiary); types of fires; related laws; introduction to incendiary fires; motives for starting fires; recognizing and preserving evidence; interviewing witnesses and suspects; and arrest, detention, and court procedures. (CSU)

FIRE 0080. Introduction to Public Safety Dispatch*Units: 3*

Also known as ADMJ 78 and HSCI 80

Hours: 54 lecture

Overview of the critical role of the Public Safety Dispatcher as first point-of-contact for coordinating emergency responses; exploration of advancements in telecommunications and emergency notifications systems; use of proper radio codes and crisis-intervention techniques used to calm and communicate with distraught callers; awareness of job requirements and hiring process for career pathways in Public Safety Dispatching. (CSU)

FIRE 0095. Internship in Fire Technology*Units: 0.5-4*

Designed for advanced students to work in an area related to their educational or occupational goal. Provides new on-the-job technical training under the direction of a worksite supervisor, allowing students to expand knowledge and skills in the chosen field. Mandatory orientation session and faculty approval to determine eligibility. Students may earn up to a total of 16 units in internship courses (any course numbered 95 and PDEV 94). (CSU-with unit limitation)

FIRE 0097. Ethical Leadership in the Classroom*Units: 0.5*

Formerly known as FIRE 639

Hours: 9 lecture

An examination of fundamental ethical values of fire service instructors by exploring examples of ethical behavior in the classroom environment. Includes basic concepts, terms and theories of ethical decision making, code of ethics, and concepts in ethical leadership. (C-ID FIRE 251X) (CSU)

FIRE 0098. Fire Technology Career Pathways*Units: 2*

Hours: 40 lecture

Career exploration in fire technology. Includes educational planning of available degree programs, labor market research, and the hiring process: development of a resume, background investigations, personal history statements, interview dynamics, and hiring examinations. (not transferable)

FIRE 0099. Introduction to Fire Academy*Unit: 1*

Advisory: Completion of ENGL N with grade of "C" or better

Hours: 32 (11 lecture, 21 laboratory)

Designed to prepare students with the basic knowledge and skills necessary to succeed in the Firefighter I Academy. Topics include: ropes and knots, donning and doffing SCBA's, fire hose rolls and loads, physical fitness, fire department duties, responsibilities and conduct. (not transferable)

FIRE 0100. Firefighter Academy*Units: 17*

Prerequisite: Completion of FIRE 1 and HSCI 2 with grades of "C" or better, possession of a current Emergency Medical Technician certificate, and submission of a physician's physical verification, including a spirometry test

Corequisite: Concurrent enrollment in FIRE 100A

Advisory: Completion of FIRE 99 with grade of "C" or better

Hours: 580 (181 lecture, 399 laboratory)

Designed for entry level firefighters. Approved by the California State Board of Fire Services and California State Fire Marshal's Office. Fulfills all educational and training requirements for Firefighter I and II. Leads to State and/or National Firefighter I certification and upon completion of experience requirement, certification of Firefighter II. Includes: Structural Firefighting, Wildland Firefighting, Hazardous Materials, Incident command system, Auto Extrication, and Firefighter Survival. Certificate of Completion issued with grade of "C" or better in both FIRE 100 and 100A. Physically demanding program. Materials fee required. (not transferable)

FIRE 0100A. Fire Academy Physical Training*Units: 2.5*

Formerly known as KIN 97

Corequisite: Concurrent enrollment in FIRE 100

Hours: 80 (28 lecture, 52 laboratory)

Designed for Firefighter I Academy Trainees, emphasizing lifetime fitness, principles of physical fitness, individual fitness programs, managing body composition, stress indicators and management, nutrition, and development of muscular strength and cardiovascular efficiency. (CSU)

FIRE 0101. Firefighter Certification Testing*Unit: 1*

Prerequisite: Completion of FIRE 100 with grade of C or better or, 1) A signed statement by the agency's Fire Chief or designee stating the sponsored student has completed all SFT training requirements and skills sheets for Firefighter-1, or 2) Documentation of approval from the California State Fire Training for a certification retest, or 3) Completion of a Firefighter I academy and applying for certification testing
Hours: 56 (8 lecture, 48 laboratory)

Prepares students to meet the State Fire Training (SFT) requirements for Firefighter I (FFI) and II (FFII) including the capstone knowledge and skills necessary to pass FFI FFII. Upon successful completion, students receive a pass letter from SFT and a FFI and FFII pass certificate from the college. (pass/no pass grading) (not transferable)

FIRE 0102. Firefighter II Training*Units: 4.5*

Prerequisite: Certified Firefighter I or equivalent as determined by the Fire Technology Program Coordinator; possession of a current Emergency Medical Technician certificate; and submission of a physician's physical verification, including a spirometry test

Hours: 128 (58 lecture, 70 laboratory)

Provides the skills and knowledge needed for the entry level firefighter to perform his/her duties safely, effectively, and competently. Covers general knowledge germane to the profession, fire department communications, fireground operations, rescue operations, prevention, preparedness and maintenance. (not transferable)

FIRE 0103. Cal Fire Basic Firefighter*Units: 9*

Prerequisite: Completion of FIRE 170 with grade of "C" or better, and possess Public Safety First Aid and CPR certification or equivalent as determined by the Program Coordinator

Hours: 219 (139.5 lecture, 79.5 laboratory)

Provides the skills and knowledge needed for the entry-level firefighter to perform his/her duties safely, effectively, and competently. The curriculum is based on CAL FIRE policy, the 2013 edition of NFPA 1001 Standard for Firefighter Professional Qualifications, the 2012 edition of NFPA 1051 Standard for Wildland Firefighter Professional Qualifications, and the 2008 edition of NFPA 472 Standard for Competence of responders to Hazardous Materials/Weapons of Mass Destruction Incidents. (not transferable)

FIRE 0170. Hazardous Materials - Operational Level*Units: 0.5,1*

Formerly known as FIRE 41

Hours: 16 lecture for 0.5 unit; 24 lecture for 1 unit

First responder course covering common alarms, roles and responsibilities, legal aspects, exposure and response safety, medical surveillance, recognition and identification, basic chemistry, personal protective equipment, scene management, preincident planning and table-top exercises. Meets federal and state training requirements. (CSU-with unit limitation)

FIRE 0171. Introduction to Wildland Fire Behavior S-190*Units: 0.5*

Hours: 9 lecture

Wildland fire behavior factors important for understanding fire spread principles and applying safe and effective suppression techniques. Meets standards prescribed by the National Wildfire Coordinating Group and the CA Incident Command Certification System for S-190 certification. (not transferable)

FIRE 0172. Intermediate Wildland Fire Behavior S-290*Units: 2*

Prerequisite: Completion of FIRE 171 with grade of "C" or better or a certified S-190 course as prescribed by the National Wildfire Coordinating Group

Hours: 40 lecture

Aligns with S-290 Intermediate Fire Behavior of the National Wildfire Coordinating Group (NWCG). Provides professional development related to the topic of wildland fire behavior. Provides instruction in the identification and prediction of wildland fire behavior in various fuel types and under varying weather conditions. Prepares municipal, county, state, and federal fire personnel to meet certification standards set forth by the National Inter-agency Incident Management System. (C-ID FIRE 241X) (not transferable)

FIRE 0173. Hazardous Materials - Incident Commander*Unit: 1*

Formerly known as FIRE 202

Prerequisite: Completion of FIRE 241 with grade of "C" or better or a certified Hazardous Materials First Responder Operational course; and I-100 (Basic Incident Command System) or equivalent as determined by the Fire Technology Program Coordinator

Hours: 24 lecture

Provides participants with the capability to assume the role of Incident Commander, as defined in the Occupational Safety and Health Act Hazardous Waste Operations (OSHA HAZWOPR) regulation, during an emergency response to an actual or potential hazardous materials release. (C-ID FIRE 232X) (not transferable)

FIRE 0174. Human Resource Management for Company Officers - CO 2A*Units: 2*

Prerequisite: Completion of FIRE 102 with grade of "C" or better or completion of California State Firefighter II educational requirements
Completion of California State Firefighter II educational requirements

Hours: 40 lecture

Aligns with Company Officer 2A of the Company Officer Program. This course provides information on the use of human resources to accomplish assignments, evaluating member performance, supervising personnel, and integrating health and safety plans, policies, and procedures into daily activities as well as the emergency scene. (C-ID FIRE 200X) (CSU-with unit limitation)

FIRE 0175. General Administrative Functions for Company Officers - CO 2B*Unit: 1*

Prerequisite: Completion of FIRE 102 with grade of "C" or better or completion of California State Firefighter II educational requirements

Advisory: Completion of FIRE 174 with grade of "C" or better

Hours: 24 lecture

Aligns with Company Officer 2B of the Company Officer Program. Provides information on general administrative functions and the implementation of department policies and procedures and addresses conveying the fire department's role, image, and mission to the public. (C-ID FIRE 210X) (CSU-with unit limitation)

FIRE 0176. Fire Inspections and Investigation for Company Officers - CO 2C*Units: 2*

Prerequisite: Completion of FIRE 102 with grade of "C" or better or completion of California State Firefighter II educational requirements

Hours: 40 lecture

Aligns with Company Officer 2C of the Company Officer Program. Provides an overview of the information necessary to conduct inspections, identify hazards and address violations, performing a fire investigation to determine preliminary cause and to secure the incident scene and preserve evidence. (C-ID FIRE 220X) (CSU-with unit limitation)

FIRE 0177. All-Risk Command Operations for Company Officers - CO 2D*Unit: 1.5*

Prerequisite: Completion of California State Firefighter II educational requirements; completion of FIRE 173 and FIRE 241 with grades of "C" or better

Hours: 40 (24 lecture, 16 laboratory)

Designed for the working firefighter. Provides information on conducting incident size-up; developing and implementing an initial plan of action involving single and multi-unit operations for various types of emergency incidents to mitigate the situation following agency safety procedures; conducting pre-incident planning; and developing and conducting a post-incident analysis. One of a series of courses required for Company Officer certification by California State Fire Training. (CSU-with unit limitation)

FIRE 0178. Wildland Incident Operations for Company Officers - CO 2E*Unit: 1.5*

Prerequisite: Completion of California State Firefighter II educational requirements; completion of FIRE 172 and FIRE 177 with grades of "C" or better or provide copies of S-290 (classroom delivery only) and HAZ MAT Incident Commander certifications, or equivalent as determined by the instructor

Hours: 40 (24 lecture, 16 laboratory)

Designed for the working firefighter, this course provides information on evaluating and reporting incident conditions, analyzing incident needs, developing and implementing a plan of action to deploy incident resources completing all operations to suppress a wildland fire, establishing an incident command post, creating an incident action plan, and completing incident records and reports. This Company Officer course is one of a series required for Company Officer certification by California State Fire Training. (CSU-with unit limitation)

FIRE 0179. Fire and Emergency Services Instructor 1*Unit: 1.5*

Advisory: IS-100.B (Introduction to the Incident Command System) and IS-700.A (FEMA - National Incident Management System)

Hours: 40 (24 lecture, 16 laboratory)

Designed for working firefighters, this course provides the skills and knowledge needed for the entry level professional instructor to perform his or her duties safely, effectively, and competently. The curriculum is based on the 2012 edition of NFPA 1041 Standard for Fire Service Instructor Professional Qualifications. At the end of this course, candidates for Instructor I certification are able to teach and deliver instruction from a prepared lesson plan utilizing instructional aids and evaluation instruments. The Instructor I is also able to adapt a lesson plan and complete the reporting requirements to the local jurisdiction. Course is one of a series required for Company Officer Certification by California State Fire Training. (CSU-with unit limitation)

FIRE 0180. Fire and Emergency Services Instructor 2*Unit: 1.5*

Prerequisite: Completion of FIRE 179 with grade of "C" or better
Advisory: IS-100.B (Introduction to the Incident Command System) and IS-700.A (FEMA - National Incident Management System)

Hours: 40 (24 lecture, 16 laboratory)

Designed for those seeking to become fire service instructors and provides the skills and knowledge needed for the intermediate level professional instructor to perform his or her duties safely, effectively, and competently. At the end of this course, candidates for Instructor II certification are able to develop lesson plans and evaluation instruments, teach and deliver instruction, and evaluate and coach other instructors. The Instructor II is also able to analyze resources and formulate a program budget. (CSU-with unit limitation)

FIRE 0181. Fire Investigation 1A, Basic Fire Investigation*Units: 2*

Formerly known as FIRE 154

Prerequisite: Completion of FIRE 3 with grade of "C" or better

Hours: 39.5 lecture

Designed for fire investigators and law enforcement officers responsible for conducting fire investigations. This course provides information on securing the fire scene and determining the origin and cause of the fire. Topics include responsibilities of a fire investigator, securing the fire ground, conducting an exterior and interior survey, analyzing fire patterns, interpreting individual fire patterns, discriminating the effects of explosions, examining and removing fire debris, reconstructing the area of origin, inspecting the performance of building systems. (not transferable)

FIRE 0182. Fire Investigation 1B, Evidence and Documentation*Unit: 1.5*

Formerly known as FIRE 155

Prerequisite: Completion of FIRE 181 with grade of "C" or better

Hours: 33.5 lecture

Designed for fire investigators and law enforcement officers responsible for conducting fire investigations. This course provides information on scene documentation and evidence collection/preservation. Topics include photographing the scene, diagramming the scene, constructing investigative notes, processing evidence and establishing chain of custody, processing victims and fatalities, selecting evidence for analysis, maintaining a chain of custody, preparing a fire investigation report, and disposing of evidence. (not transferable)

FIRE 0183. Fire Investigation 1C, Preparation for Legal Proceedings*Units: 2*

Prerequisite: Completion of FIRE 181, 182 and ADMJ 110 with grades of "C" or better

Hours: 40 lecture

Designed for fire investigators and law enforcement officers responsible for conducting fire investigations. This course provides information on legal considerations for a court proceeding. Topics include coordinating expert resources, formulating an opinion, presenting investigative findings, and testifying during legal proceedings. (not transferable)

FIRE 0190. Human Resource Management for Chief Fire Officers - 3A*Unit: 1*

Prerequisite: Meet the educational requirements for Company Officer by one of the following: completion of FIRE 174, 175, 176, 177, 178, and 179 with grades of "C" or better; or completion of Office of the State Fire Marshal Company Officer 2A, 2B, 2C, 2D, 2E, and Instructor I courses; or equivalent as determined by the Fire Technology Program Coordinator
Hours: 26 lecture

Designed for Company Officers advancing to the Chief Officer classification. Provides basic knowledge of human resource requirements related to the roles and responsibilities of a Chief Fire Officer. Includes developing plans for providing employee accommodation, developing hiring procedures, establishing personnel assignments, describing methods of facilitating and encouraging professional development, developing an ongoing education training program, developing promotion procedures, developing proposals for improving employee benefits, and developing a measurable accident and injury prevention program. (not transferable)

FIRE 0191. Budget and Fiscal Responsibilities for Chief Fire Officers - 3B*Unit: 1*

Prerequisite: Meet the educational requirements for Company Officer by one of the following: completion of FIRE 174, 175, 176, 177, 178, and 179 with grades of "C" or better; or completion of Office of the State Fire Marshal Company Officer 2A, 2B, 2C, 2D, 2E, and Instructor I courses; or equivalent as determined by the Fire Technology Program Coordinator
Hours: 18 lecture

Provides a basic knowledge of the budgeting requirements related to the roles and responsibilities of a Chief Fire Officer, including developing a budget management system, developing a division or departmental budget, and describing the process for ensuring competitive bidding. (not transferable)

FIRE 0192. General Administrative Functions for Chief Fire Officers - 3C*Unit: 1*

Prerequisite: Meet the educational requirements for Company Officer by one of the following: completion of FIRE 174, 175, 176, 177, 178, and 179 with grades of "C" or better; or completion of Office of the State Fire Marshal Company Officer 2A, 2B, 2C, 2D, 2E, and Instructor I courses; or equivalent as determined by the Fire Technology Program Coordinator
Hours: 24 lecture

Provides a basic knowledge of the administration requirements related to the roles and responsibilities of a Chief Fire Officer, including directing a department record management system, analyzing and interpreting records and data, developing a model plan for continuous organizational improvement, developing a plan to facilitate approval, preparing community awareness programs, and evaluating the inspection program of the authority having jurisdiction (AHJ). (not transferable)

FIRE 0193. Chief Fire Officer 3D: Command of Expanding All-Hazard Incidents*Units: 2*

Prerequisite: Meet the educational requirements for Company Officer by one of the following: completion of FIRE 174, 175, 176, 177, 178, and 179 with grades of "C" or better; or completion of Office of the State Fire Marshal Company Officer 2A, 2B, 2C, 2D, 2E, and Instructor I courses; or equivalent as determined by the Fire Technology Program Coordinator
Hours: 40 lecture

Provides a basic knowledge of the emergency service requirements related to the roles and responsibilities of a Chief Fire Officer, including developing a plan for the integration of fire services resources, developing an agency resource contingency plan, evaluating incident facilities, supervising multiple resources, developing and utilizing an incident action plan, obtaining incident information to facilitate transfer of command, developing and conducting a post-incident analysis, and maintaining incident records. This course has been realigned to expanding/extended Type 3 incidents also allowed for dual certification with the NWCG S-300 Extended Attack Incident Commander course, the base course for CICCIS certification as an Incident Commander Type 3 (ICT3). (not transferable)

FIRE 0241. I-200: Incident Command System*Units: 0.5*

Hours: 12 lecture

Aligns with I-200: Incident Command System of the Federal Emergency Management Agency (FEMS) ICS Program. This course is an introduction to the Incident Command System (ICS) National Training curriculum. Includes principles and features, organization overview, incident facilities, resources, and common responsibilities. ICS 200 certification is the minimum requirement for attending ICS 200 level courses and functioning in a Unit Leader position during an incident. (C-ID FIRE 231X) (not transferable)

FIRE 0242. I-300: Intermediate ICS for Expanding Incidents*Unit: 1*

Prerequisite: Completion of FIRE 241 with grade of "C" or better

Hours: 24 lecture

Covers organization and staffing, incident resources management, organizing for incidents or events, incident and event planning and air operations within the Incident Command System national training curriculum. (pass/no pass grading) (not transferable)

FIRE 0243. I-400: Advanced ICS for Complex Incidents*Units: 0.5*

Prerequisite: Completion of FIRE 242 with grade of "C" or better

Hours: 16 lecture

Covers command and general staff, unified command, major incident management and area command within the Incident Command System national training curriculum. (pass/no pass grading) (not transferable)

FIRE 0608. Basic Structural Firefighter*Units: 4.5*

Hours: 150 (55 lecture, 95 laboratory)

Entry-level course for volunteer firefighters. Topics include fire behavior, safety, personal protective equipment, forcible entry, rescue, ground ladders, hoses, fire streams and nozzles, and fire control principles. (not transferable) (not degree applicable) (pass/no pass grading)

FIRE 0618. Fire Control 4*Units: 0.5*

Prerequisite: Completion of Fire 100 and 170 with grades of "C" or better or equivalent as determined by the Program Coordinator.

Hours: 16 (8 lecture, 8 laboratory)

This course provides the knowledge and skills that prepare a firefighter to extinguish an ignitable liquid fire, control a flammable gas fire, and develop an incident action plan for a pipeline emergency. (not transferable) (not degree applicable) (pass/no pass grading)

FIRE 0632. Auto Extrication*Units: 0.5*

Hours: 24 (9.5 lecture, 14.5 laboratory)

Provides the knowledge and skills to prepare a firefighter to extricate victim(s) from a common passenger vehicle in a safe and effective manner. (not transferable) (not degree applicable) (pass/no pass grading)

FIRE 0634. Driver Operator 1A*Unit: 1.5*

Prerequisite: Hold a valid Class C driver's license

Hours: 40 (23 lecture, 17 activity)

Provides information on fire apparatus, preventative maintenance and driving/operating. Topics include routine tests, inspections, and servicing functions; operate, back, maneuver, and turn a fire apparatus in a variety of conditions; and operate all fixed systems and equipment on a fire apparatus. Students must provide full structural personal protective equipment and fire apparatus for the final two days of class. Fulfills the requirements for a Class C Firefighter Endorsement. (not transferable) (not degree applicable) (pass/no pass grading)

FIRE 0635. Driver/Operator 1B - Pumping Apparatus Operations*Unit: 1.5*

Prerequisite: Completion of FIRE 634 with grade of "C" or better, and completion of Firefighter 1, or equivalent as determined by the Fire Technology Program Coordinator, and hold a valid Class C Firefighter endorsed driver's license

Hours: 40 (18 lecture, 22 activity)

Provides information on pumping apparatus preventive maintenance and operations. Topics include routine tests, inspections, and servicing functions; producing hand, master, and foam fire streams, relay pump operations; and supplying water to fire sprinkler and standpipe systems. Students must provide full structural personal protective equipment and fire apparatus for the final three days of class. (not transferable) (not degree applicable) (pass/no pass grading)

FIRE 0637. Confined Space Awareness*Units: 0.5*

Hours: 9 lecture

Instruction in identifying a permit and non-permit required confined space, the hazards associated with confined spaces, target industries and hazards, state regulations, communications and equipment requirements. This course does not qualify participants to make permit required entries. (not transferable) (not degree applicable) (pass/no pass grading)

FIRE 0638. Low Angle Rope Rescue Operational*Units: 0.5*

Hours: 24 (8 lecture, 16 laboratory)

Designed to equip the student with the techniques and methods for using rope, webbing, hardware friction devices and litters in low angle rescue situations. Areas covered include rope and related equipment, anchor systems, safety lines, stretcher lashing and rigging, mechanical advantage systems and single and two line rescue systems. (not transferable) (not degree applicable) (pass/no pass grading)

FIRE 0640. Hazardous Materials Technician 1A, Basic Chemistry*Units: 2*

Prerequisite: Completion of FIRE 170 with grade of "C" or better or approved Federal/State equivalent course

Hours: 40 lecture

Basic aspects of chemistry and physics related to management of a hazardous materials incident. Covers physical and chemical properties of matter, atomic structure, periodic table, metals and non-metals, salts, hydrocarbons and derivatives, forms of energy, the combustion process, flammable and combustible liquids. Meets standards prescribed by the CA State Fire Marshal, and Office of Emergency Services. (not transferable) (not degree applicable) (pass/no pass grading)

FIRE 0641. Hazardous Materials Technician 1B, Applied Chemistry*Unit: 1.5*

Prerequisite: Completion of FIRE 640 with grade of "C" or better or approved Federal/State equivalent course(s)

Hours: 40 (24 lecture, 16 laboratory)

Basic terminology and theory of chemistry as it relates to hazardous materials. Covers chemical aspects of the hazard classes, toxicology, including hazard and risk assessment, function and use of detection instruments, monitoring hazardous atmospheres and use of a field identification kit to identify unknown solids and liquids. Meets standards prescribed by the CA State Fire Marshal and Office of Emergency Services. (not transferable) (not degree applicable) (pass/no pass grading)

FIRE 0642. Hazardous Materials Technician 1C, Incident Considerations*Unit: 1.5*

Prerequisite: Completion of FIRE 641 with grade of "C" or better or approved Federal/State equivalent course(s)

Hours: 40 (26 lecture, 14 laboratory)

Hazardous materials on-scene incident considerations. Covers data research, meteorological considerations, protective actions, personal protective equipment, incident command aspects, site safety concepts, legislative and regulatory measures influencing emergency response and contingency planning. Meets standards prescribed by the CA State Fire Marshal and Office of Emergency Services. (not transferable) (not degree applicable) (pass/no pass grading)

FIRE 0643. Hazardous Materials Technician 1D, Tactical Field Operations*Unit: 1.5*

Prerequisite: Completion of FIRE 642 with grade of "C" or better or approved Federal/State equivalent course(s)

Hours: 40 (24 lecture, 16 laboratory)

Experience with tactical field operations. Covers confinement, control, hazmat triage and sabotage, performing in chemical protective clothing, preservation of evidence, decontamination, and emergency medical system considerations. Meets standards prescribed by the CA State Fire Marshal and Office of Emergency Services. (not transferable) (not degree applicable) (pass/no pass grading)

FIRE 0644. Hazardous Materials Specialist 1F*Unit: 1.5*

Prerequisite: Completion of FIRE 643 with grade of "C" or better or approved Federal/State equivalent course(s)

Hours: 40 (32 lecture, 8 laboratory)

Introduction to mitigation techniques. Includes plugging, patching and repairing methods; advanced chemical field identification testing procedures, and fixed facility repair considerations. Part one of a two part series leading to certification as a Hazardous Materials Specialist. Meets requirements of CA Code of Regulations Title 8, Section 519(q). (not transferable) (not degree applicable) (pass/no pass grading)

FIRE 0645. Hazardous Materials Specialist 1G*Unit: 1*

Prerequisite: Completion of FIRE 644 with grade of "C" or better or approved Federal/State equivalent course(s)

Hours: 40 (16 lecture, 24 laboratory)

Covers material presented in Hazardous Materials Courses 1A-1F in an environment of scenario based full scale exercises. Participants evaluated for their ability to perform and be certified as a member of a Hazardous Materials Team. (not transferable) (not degree applicable) (pass/no pass grading)

FIRE 0650. Rescue Systems I*Unit: 1.5*

Prerequisite: Completion of FIRE 638 with grade of "C" or better or completion of a State Fire Marshal approved Low Angle Rope Rescue Operational course

Hours: 40 (21 lecture, 19 laboratory)

Rescue systems, ropes and related equipment, heavy object operations, breaking and breaching operations, ladder rescues, and emergency shoring. Required for CA Urban Search and Rescue basic and light operational level training. (not transferable) (not degree applicable) (pass/no pass grading)

Program Student Learning Outcomes (PSLOs)

- Analyze and apply measures to resolve problems in areas of fire suppression, fire prevention and EMS.
- Recognize the importance of ethics, professionalism and diversity within the fire technology field.
- Communicate effectively in both oral presentations and written reports.
- Demonstrate technical, cognitive, and psychomotor skills necessary to achieve and maintain employment in the fire service.
- Demonstrate knowledge and understanding of the fire service industry.