

FIRE TECHNOLOGY (FIRE)

FIRE 001 Principles of Emergency Services

Units: 3

This course provides: an overview to fire protection and emergency services; career opportunities in fire protection and related fields; culture and history of emergency services; fire loss analysis; organization and function of public and private fire protection services; fire departments as 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 meets the Fire and Emergency Services Higher Education (FESHE) model curriculum for an Associates Degree as recognized by the National Fire Academy. (C-ID FIRE 100 X)

Lecture Hours: 54 Lab Hours: None Repeatable: No

Grading: Letter

Prerequisite: None

Advisory: ENG 001A.

Limitation on enrollment: None

Transfer Status: CSU Degree Applicable: AA/AS

COD GE: None CSU GE: None IGETC: None

FIRE 001A Principles of Emergency Services 1A

Units: 1.5

FIRE 001A is part 1 of 2 courses that meet the requirements of FIRE 001 (Principles of Emergency Services). FIRE 001A 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; basic fire chemistry and physics; and fire service nomenclature. Completion of both FIRE 001A and FIRE 001B will meet the Fire and Emergency Service Higher Education (FESHE) model curriculum for Principles of Emergency Services.

Lecture Hours: 27 Lab Hours: None Repeatable: No

Grading: Letter

Prerequisite: None

Advisory: ENG 061.

Limitation on enrollment: None

Transfer Status: CSU Degree Applicable: AA/AS

COD GE: None CSU GE: None IGETC: None

FIRE 001B Principles of Emergency Services 1B

Units: 1.5

FIRE 001B is part 2 of 2 courses that meet the requirements of FIRE 001 (Principles of Emergency Services). This course provides students with: an understanding of organizations and functions of public and private fire protection services; fire departments as part of local government; laws and regulations affecting the fire service; specific fire protection functions; introduction to fire protection systems; introduction to fire strategy and tactics; and life safety initiatives. Completion of both FIRE 001A and FIRE 001B will meet the Fire and Emergency Service Higher Education (FESHE) model curriculum for Principles of Emergency Services.

Lecture Hours: 27 Lab Hours: None Repeatable: No

Grading: Letter

Prerequisite: FIRE 001A.

Advisory: ENG 061.

Limitation on enrollment: None

Transfer Status: CSU Degree Applicable: AA/AS

COD GE: None CSU GE: None IGETC: None

FIRE 002 Fire Prevention

Units: 3

This course provides fundamental knowledge relating to the field of fire prevention. Topics include: history and philosophy of fire prevention; organization and operation of 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 is designated Fire 2 by the California State Board of Fire Services and the State Fire Marshal and is part of the designated core curriculum. This course meets the Fire and Emergency Service Higher Education (FESHE) model curriculum for an Associate Degree as recognized by the National Fire Academy. (C-ID FIRE 110X)

Lecture Hours: 54 Lab Hours: None Repeatable: No

Grading: Letter

Prerequisite: None

Advisory: ENG 061.

Limitation on enrollment: None

Transfer Status: CSU Degree Applicable: AA/AS

COD GE: None CSU GE: None IGETC: None

FIRE 003 Fire Protection Systems

Units: 3

This course provides information relating to the features of design and operation of fire detection and alarm systems, heat and smoke control systems, special protection and sprinkler systems, water supply for fire protection, and portable fire extinguishers. This course is designated as Fire 3 by the California State Board of Fire Services and the State Fire Marshal as part of the core curriculum. This course meets the Fire and Emergency Service Higher Education (FESHE) model curriculum for an Associate Degree as recognized by the National Fire Academy. (C-ID FIRE 120X)

Lecture Hours: 54 Lab Hours: None Repeatable: No

Grading: Letter

Prerequisite: None

Advisory: ENG 061.

Limitation on enrollment: None

Transfer Status: CSU Degree Applicable: AA/AS

COD GE: None CSU GE: None IGETC: None

FIRE 004 Building Construction for Fire Protection

Units: 3

This course provides the components of building construction related to firefighter and life safety. The elements of construction and design of structures are shown to be key factors when inspecting buildings, preplanning fire operations, and operating at emergencies. This course is designated as Fire 4 by the California State Board of Fire Services and the State Fire Marshal as part of the core curriculum. This course meets the Fire and Emergency Service Higher Education (FESHE) model curriculum for an Associate Degree as recognized by the National Fire Academy. (C-ID FIRE 130X)

Lecture Hours: 54 Lab Hours: None Repeatable: No

Grading: Letter

Prerequisite: None

Advisory: ENG 061.

Limitation on enrollment: None

Transfer Status: CSU Degree Applicable: AA/AS

COD GE: None CSU GE: None IGETC: None

FIRE 005 Fire Behavior & Combustion

Units: 3

This course explores the theories and fundamentals of how and why fires start, spread, and are controlled. This course is designated Fire 5 by the California State Board of Fire Services and the State Fire Marshal and is part of the designated core curriculum. This course meets the Fire and Emergency Service Higher Education (FESHE) model curriculum for an Associate Degree as recognized by the National Fire Academy. (C-ID FIRE 140X)

Lecture Hours: 54 Lab Hours: None Repeatable: No

Grading: Letter

Prerequisite: None

Advisory: ENG 061.

Limitation on enrollment: None

Transfer Status: CSU Degree Applicable: AA/AS

COD GE: None CSU GE: None IGETC: None

FIRE 006 Hazardous Materials/ICS

Units: 3

This course introduces the student to the world of hazardous chemicals, including their physical properties, uses in industry, and characteristics when involved in spills, fires and accidents. Basic information is covered regarding emergency procedures, legal requirements, compliance to regulations, health effects and treatment, and fire department protocols and responsibilities. This course is designed to meet the core competencies for hazardous materials first responders as outlined in OSHA 1910.120, NFPA 472, Professional Competencies of Responders to Hazardous Materials Incidents. This course is designated Fire 6 by the State Board of Fire Services and California State Fire Marshall.

Lecture Hours: 54 Lab Hours: None Repeatable: No

Grading: Letter

Prerequisite: None

Advisory: ENG 061.

Limitation on enrollment: None

Transfer Status: CSU Degree Applicable: AA/AS

COD GE: None CSU GE: None IGETC: None

FIRE 007 Principles of Fire & Emergency Services, Safety & Survival

Units: 3

This course introduces the basic principles and history related to the national firefighter life safety initiatives, focusing on the need for cultural and behavior change throughout the emergency services. (C-ID FIRE 150X)

Lecture Hours: 54 Lab Hours: None Repeatable: No

Grading: Letter

Prerequisite: None

Advisory: ENG 061.

Limitation on enrollment: None

Transfer Status: CSU Degree Applicable: AA/AS

COD GE: None CSU GE: None IGETC: None

FIRE 008 Firefighting Strategies & Tactics

Units: 3

Principles of fire control, through utilization of manpower, equipment, extinguishing agents, and fire command and control procedures. Use of information on building construction types in fire control. Pre-fire planning and the organized approach to decision making on the fire ground. (C-ID FIRE 160 X)

Lecture Hours: 54 Lab Hours: None Repeatable: No

Grading: Letter

Prerequisite: FIRE 001.

Advisory: ENG 061.

Limitation on enrollment: None

Transfer Status: CSU Degree Applicable: AA/AS

COD GE: None CSU GE: None IGETC: None

FIRE 009 Fire Protection Hydraulics and Water, Supply

Units: 3

This course provides the Fire Technology student with a foundation of theoretical knowledge in order to understand the principles of water usage in fire protection. Students learn to apply hydraulic principles to analyze and solve water supply problems. Topics include the design principles of fire service pumping apparatus, community fire flow demand criteria, pump theory, pumping and hydraulic calculations, fire ground hydraulics, drafting operations, and the testing and inspecting of water-based suppression systems.

Lecture Hours: 54 Lab Hours: None Repeatable: No

Grading: Letter

Prerequisite: None

Advisory: ENG 061 & MATH 065.

Limitation on enrollment: None

Transfer Status: None Degree Applicable: AA/AS

COD GE: None CSU GE: None IGETC: None

FIRE 010 Wildland Fire Technology

Units: 3

This course is designed to provide students with a fundamental knowledge of the factors affecting wildland fire behavior, fire prevention, and the wildland fire suppression techniques. Wildland fire behavior safety is presented throughout the course. (Equivalent to NR 010.)

Lecture Hours: 54 Lab Hours: None Repeatable: No

Grading: Letter

Prerequisite: None

Advisory: ENG 061.

Limitation on enrollment: None

Transfer Status: CSU Degree Applicable: AA/AS

COD GE: None CSU GE: None IGETC: None

FIRE 024 Report Writing for the Fire Service

Units: 3

This course covers forms, formats, and techniques of written reports used in the Fire Service. Topics report content and form; principles of clear writing; report writing steps; applications of report writing that meet statistical, legal requirements in the Fire Service; and the use of report writing technology. Students learn how to gather, record, and organize facts from a fire or Emergency Medical Services (EMS) incident and then use those facts to describe the incident in a complete, clear, concise, and correctly formatted narrative report. Students also learn to prepare various personnel-related reports. This course is intended for students majoring in Fire Prevention, Fire Investigation or preparing for employment as a firefighter.

Lecture Hours: 54 Lab Hours: None Repeatable: No

Grading: Letter

Prerequisite: None

Advisory: ENG 061.

Limitation on enrollment: None

Transfer Status: None Degree Applicable: AA/AS

COD GE: None CSU GE: None IGETC: None

FIRE 095A Fire Technology Work Experience**Units: 1-5**

This work experience course of supervised employment provides students the opportunity to connect academics to applied experiential learning in the workplace. It assists students in developing transferable employability skills, career awareness, learning industry culture, competencies and norms, and developing professional networks that support career mobility. To enroll, students must have a job or internship placement in a part-time or full-time capacity. Credit may be accrued at the rate of one to five (1-5) units per semester based on the student's ability to meet the hours required per unit enrolled. Students must work 54 hours per unit earned. This Work Experience course is available to students whose job or internship placement is directly related to Fire Technology.

Lecture Hours: None Lab Hours: 270 Repeatable: Yes

Grading: Letter

Prerequisite: None

Advisory: None

Limitation on enrollment: None

Transfer Status: CSU Degree Applicable: AA/AS

COD GE: None CSU GE: None IGETC: None