

FIRE TECHNOLOGY (FIRE)

FIRE 001 PRINCIPLES OF EMERGENCY SERVICES

3 unit

Transfer Credit: CSU

C-ID: FIRE 100X

Overview of 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. Total of 54 hours lecture.

Grade Mode: *Audit, Letter Grade*

FIRE 010 FIRE PREVENTION

3 unit

Transfer Credit: CSU

C-ID: FIRE 110X

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. Total of 54 hours lecture.

Grade Mode: *Audit, Letter Grade*

FIRE 020 FIRE PROTECTION SYSTEMS

3 unit

Transfer Credit: CSU

C-ID: FIRE 120X

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. Total of 54 hours lecture.

Grade Mode: *Audit, Letter Grade*

FIRE 030 BUILDING CONSTRUCTION FOR FIRE PROTECTION

3 unit

Transfer Credit: CSU

Prerequisite(s): *FIRE 001*

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. Total of 54 hours lecture.

Grade Mode: *Audit, Letter Grade*

FIRE 040 FIRE BEHAVIOR AND COMBUSTION

3 unit

Transfer Credit: CSU

C-ID: FIRE 140X

Theories and fundamentals of how and why fires start, spread and are controlled. In depth study of fire chemistry and physics, fire characteristics of materials, extinguishing agents and fire control techniques. Total of 54 hours lecture.

Grade Mode: *Audit, Letter Grade*

FIRE 050 PRINCIPLES OF EMERGENCY SERVICES SAFETY & SURVIVAL

3 unit

Transfer Credit: CSU

C-ID: FIRE 150X

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. Total of 54 hours lecture.

Grade Mode: *Audit, Letter Grade*

FIRE 110 INTRODUCTION TO FIRE TECHNOLOGY

3 unit

Provides an introduction to fire protection; career opportunities in fire protection and related fields; history of fire protection; fire loss analysis; public, quasi-public and private fire protection services; specific fire protection functions; basic fire chemistry and physics. Total of 54 hours lecture.

Grade Mode: *Audit, Letter Grade*

FIRE 112 FUNDAMENTALS OF FIRE BEHAVIOR AND CONTROL

3 unit

Theories and fundamentals of how fires start, spread and are controlled. In depth study of fire chemistry and physics, fire characteristics of materials, extinguishing agents and fire control techniques. Total of 54 hours lecture.

Grade Mode: *Audit, Letter Grade*

FIRE 128 FUNDAMENTALS OF FIRE PROTECTION EQUIPMENT AND DETECTION

3 unit

Prerequisite(s): *Enrollment in or completion of FIRE 110 or 112*

This course covers the basic knowledge of fire protection within occupancies and applicable fire protection laws. Student will gain understanding in occupancy fire detection and alarms systems, heat and smoke controls, special protection systems, fire sprinklers, water supply, and portable fire extinguishers. Student will understand the installation, maintenance, operation and testing of fire protection systems. Required instructional trips. Total of 54 hours lecture.

Grade Mode: *Audit, Letter Grade*