

CATALOG INFORMATION

Dept and Nbr: FIRE 71 Title: FIRE PROTECTION ORG.
Full Title: Fire Protection Organization
Last Reviewed: 10/14/2019

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	3.00	Lecture Scheduled	3.00	17.5	Lecture Scheduled	52.50
Minimum	3.00	Lab Scheduled	0	6	Lab Scheduled	0
		Contact DHR	0		Contact DHR	0
		Contact Total	3.00		Contact Total	52.50
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 105.00

Total Student Learning Hours: 157.50

Title 5 Category: AA Degree Applicable
Grading: Grade Only
Repeatability: 00 - Two Repeats if Grade was D, F, NC, or NP
Also Listed As:
Formerly: FIRE 51

Catalog Description:
This course provides an introduction to fire service and protection; it includes careers in fire protection and related fields. The course includes history, loss analysis, private fire protection, and an introduction to the chemistry and physics of fire.

Prerequisites/Corequisites:

Recommended Preparation:
Eligibility for ENGL 100 or ESL 100.

Limits on Enrollment:

Schedule of Classes Information:
Description: State Core Course. This course provides an introduction to fire service and protection; it includes careers in fire protection and related fields. The course includes history, loss analysis, private fire protection, and an introduction to the chemistry and physics of fire. (Grade Only)
Prerequisites/Corequisites:
Recommended: Eligibility for ENGL 100 or ESL 100.

Limits on Enrollment:

Transfer Credit: CSU;

Repeatability: Two Repeats if Grade was D, F, NC, or NP

ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:

AS Degree:	Area	Effective:	Inactive:
CSU GE:	Transfer Area	Effective:	Inactive:

IGETC:	Transfer Area	Effective:	Inactive:
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CSU Transfer:	Transferable	Effective:	Fall 1981	Inactive:
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UC Transfer:	Effective:	Inactive:
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CID:

Certificate/Major Applicable:

Both Certificate and Major Applicable

COURSE CONTENT

Outcomes and Objectives:

Upon completion of the course, the student will be able to:

1. Identify the three types of degrees and certificates that are offered in fire technology.
2. List the hiring practices and equal opportunity requirements that are stated in fire service policies.
3. Identify Federal, State and local training programs provided to firefighters.
4. Differentiate between types of fire departments.
5. List the major components of the fire service selection process.
6. Identify the types of common fire department apparatus, equipment, and personal safety equipment used for firefighting.
7. Recognize the role of fire service personnel.
8. Identify the early traditions and history of the fire service.
9. Explain basic components of fire behavior and combustion.
10. Identify hazards and categorize building construction along with materials used.
11. Analyze types of fire alarm, detection and suppression systems.
12. Compare private and public support organizations that provide service to the fire service.
13. List common fire service facilities and vehicles that provide emergency services.
14. Distinguish between the different organizations and management considerations used by the fire service today.

Topics and Scope:

- I. Introduction to Fire Technology
 - A. Identification of the scope and content of Fire Technology Curriculum
1. Certificates
2. Degree programs
3. State Certification
 - B. Affirmative action and equal opportunity requirements
 - C. Federal, State and local Fire Training programs

- D. Fire Terms and their definitions
- E. Web-site fire training
- II. Fire Service as a Career
 - A. Career, volunteer and combination fire departments
 - B. Public safety departments
 - C. Private fire brigades
 - D. Selection process
- 1. Recruitment
- 2. Application
- 3. Written Examination
- 4. Physical ability tests
- 5. Oral interview
- III. Roles of Fire Service Personnel
 - A. Fire Companies
 - 1. Engine
 - 2. Truck
 - 3. Rescue/Squad
 - B. Fire Suppression
 - 1. Firefighter
 - 2. Fire apparatus driver/operator
 - 3. Company officer
 - 4. Battalion or district chief
 - 5. Safety officer
 - 6. Public information officer
 - 7. Assistant or deputy chief
 - 8. Fire chief
 - C. Special Operations
 - 1. Airport firefighter
 - 2. Hazardous materials technician
 - 3. Technical rescue specialist
 - D. Fire Prevention
 - 1. Fire prevention officer/inspector
 - 2. Fire investigator
 - 3. Public fire and life safety educator
 - 4. Building plans examiner
 - E. Emergency Medical Services (EMS)
 - 1. First responder
 - 2. Emergency medical technician
 - 3. Paramedic
 - 4. EMS chief/officer
 - F. Special Services
 - 1. Telecommunications/dispatch
 - 2. Apparatus and/or equipment maintenance
- IV. History and Philosophy of the Modern Day Fire Services
 - A. Early fire services
 - B. Fire protection in America
 - C. American fire equipment
 - D. Growth of the volunteer fire service
 - E. Improvements and protective clothing
 - F. The impact of historic fires on fire protection in North America
- V. Fire Behavior and Combustion
 - A. Fire as a chemical reaction

- B. The major phases of fire
- C. Factors that influence fire spread and fire behavior
- VI. Building Construction
 - A. Types
 - B. Effects of fire on common building materials
 - C. Firefighter hazards
- VII. Fire Detection, Alarm, and Suppression Systems
 - A. Types of alarm systems
 - B. Automatic sprinkler systems
 - C. Standpipe systems
- VIII. Role of Public and Private Support Organizations
 - A. Trade organizations
 - B. Federal organizations
 - C. State/provincial organizations
 - D. Local organizations
- IX. Fire and Emergency Services - Equipment and Facilities
 - A. Facilities
 - B. Fire apparatus
- X. Fire Department Organization and Management
 - A. Purpose of fire protection agencies
 - B. Organizational hierarchy
 - C. Local government structures
 - D. Types of fire departments
 - E. Response considerations
 - F. Policies and procedures
 - G. Incident management systems
 - H. Fire department planning

Assignment:

1. Reading 20-30 pages from textbook
2. Completion of 17 weekly assignment sheets
3. Midterm, final exam, and weekly quizzes
4. Term project and/or internet research project
5. Class oral presentation
6. 2 field trips
7. Scenarios and role playing

Methods of Evaluation/Basis of Grade:

Writing: Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

Written homework, reading reports, term project

Writing 10 - 30%

Problem Solving: Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Homework problems, Quizzes	Problem solving 5 - 10%
Skill Demonstrations: All skill-based and physical demonstrations used for assessment purposes including skill performance exams.	
None	Skill Demonstrations 0 - 0%
Exams: All forms of formal testing, other than skill performance exams.	
Multiple choice, Completion, Midterm, Final exam	Exams 60 - 80%
Other: Includes any assessment tools that do not logically fit into the above categories.	
Internet research project, Field trips	Other Category 5 - 10%

Representative Textbooks and Materials:

- (1) Fire Service Orientation and Terminology, International Fire Service Training Association (IFSTA), current edition
- (2) Introduction to Fire Protection, Klinoff, Thompson Delmar Learning, current edition