

FT R151: FIRE PROTECTION ORGANIZATIONS

Originator

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College

Oxnard College

Discipline (CB01A)

FT - Fire Technology

Course Number (CB01B)

R151

Course Title (CB02)

Fire Protection Organizations

Banner/Short Title

Fire Protection Organizations

Credit Type

Credit

Start Term

Fall 2021

Catalog Course Description

This course provides an 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.

Taxonomy of Programs (TOP) Code (CB03)

2133.00 - *Fire Technology

Course Credit Status (CB04)

D (Credit - Degree Applicable)

Course Transfer Status (CB05) (select one only)

B (Transferable to CSU only)

Course Basic Skills Status (CB08)

N - The Course is Not a Basic Skills Course

SAM Priority Code (CB09)

C - Clearly Occupational

Course Cooperative Work Experience Education Status (CB10)

N - Is Not Part of a Cooperative Work Experience Education Program

Course Classification Status (CB11)

Y - Credit Course

Educational Assistance Class Instruction (Approved Special Class) (CB13)

N - The Course is Not an Approved Special Class

Course Prior to Transfer Level (CB21)

Y - Not Applicable

Course Noncredit Category (CB22)

Y - Credit Course

Funding Agency Category (CB23)

Y - Not Applicable (Funding Not Used)

Course Program Status (CB24)

1 - Program Applicable

General Education Status (CB25)

Y - Not Applicable

Support Course Status (CB26)

N - Course is not a support course

Field trips

May be required

Grading method

Letter Graded

Does this course require an instructional materials fee?

No

Repeatable for Credit

No

Is this course part of a family?

No

Units and Hours

Carnegie Unit Override

No

In-Class

Lecture

Minimum Contact/In-Class Lecture Hours

52.5

Maximum Contact/In-Class Lecture Hours

52.5

Activity

Laboratory

Total in-Class

Total in-Class

Total Minimum Contact/In-Class Hours

52.5

Total Maximum Contact/In-Class Hours

52.5

Outside-of-Class

Internship/Cooperative Work Experience

Paid

Unpaid

Total Outside-of-Class

Total Outside-of-Class

Minimum Outside-of-Class Hours

105

Maximum Outside-of-Class Hours

105

Total Student Learning

Total Student Learning

Total Minimum Student Learning Hours

157.5

Total Maximum Student Learning Hours

157.5

Minimum Units (CB07)

3

Maximum Units (CB06)

3

Student Learning Outcomes (CSLOs)

Upon satisfactory completion of the course, students will be able to:

- | | |
|---|--|
| 1 | Identify notable events in fire protection history. |
| 2 | Describe the general fire protection function of Fire Company positions and apparatus. |
| 3 | List career opportunities related to fire protection and emergency services. |
| 4 | Identify different types of building construction, suppression systems, detection systems and occupancy types. |

Course Objectives

Upon satisfactory completion of the course, students will be able to:

- | | |
|----|---|
| 1 | Describe the components and development of the fire and emergency services. |
| 2 | Recognize and Illustrate the history of the fire service. |
| 3 | Recognize careers in fire and emergency services. |
| 4 | Illustrate and explain the history and culture of the fire service. |
| 5 | Analyze the basic components of fire as a chemical chain reaction, the major phases of fire, and examine the main factors that influence fire spread and fire behavior. |
| 6 | Differentiate between fire service training and education and explain the value of higher education to the professionalization of the fire service. |
| 7 | List and describe the major organizations that provide emergency response service and illustrate how they interrelate. |
| 8 | Identify fire protection and emergency-service careers in both the public and private sector. |
| 9 | Define the role of national, State and local support organizations in fire and emergency services. |
| 10 | Discuss and describe the scope, purpose, and organizational structure of fire and emergency services. |
| 11 | Describe the common types of fire and emergency service facilities, equipment, and apparatus. |
| 12 | Compare and contrast effective management concepts for various emergency situations. |
| 13 | Identify the primary responsibilities of fire prevention personnel including, code enforcement, public information, and public and private protection systems. |
| 14 | Recognize the components of career preparation and goal setting. |
| 15 | Describe the importance of wellness and fitness as it relates to emergency services. |

Course Content

Lecture/Course Content

1. Scope and Content of Fire Technology Curriculum
 - a. College Certificate Completion
 - b. Associate Degree
 - c. Bachelor Degree
 - d. State Certification Requirements
2. Career Potential Assessment
 - a. Assessing the Agency
 - b. Applying for the Job
 - c. Employment Processes
 - d. Physical Fitness Assessment
 - e. Career Counseling
3. Affirmative Action
 - a. Cultural Differences
 - i. Gender Stereotypes
 - ii. Ethnic Stereotypes
 - iii. Cross Cultural and Gender Communications
 - b. Equal Employment Opportunity Commission
 - i. What is E.E.O.C. ?
 - ii. E.E.O.C. History
 - iii. E.E.O.C. History in the Fire Service – Case Studies and Discussion
 - c. Affirmative Action
 - i. What is A.A.?
 - ii. A.A. History
 - iii. A.A. History in the Fire Service – Case Studies and Discussion
4. Available Training Programs
 - a. In-Service
 - b. Regional
 - c. State
 - d. National
5. Personnel Development Programs
 - a. Need for Physical Fitness
 - b. Aspects of Firefighter Safety and Survival
6. Public Fire Protection Career Opportunities
 - a. Federal Agencies
 - b. State Agencies
 - c. Local Agencies
7. Private Fire Protection Career Opportunities
 - a. Industrial
 - b. Insurance
 - c. Apparatus and Equipment
 - d. Fire Protections Systems
8. History of Public Fire Protection
 - a. United States Fire Protection Development
 - b. Social, Political, and Economic Implications of the Fire Problem
 - c. Major Causes of Fires in the United States
9. Fire Losses
 - a. Deaths and Injuries
 - b. Property Damages
10. Purpose and Scope of Fire Agencies
 - a. Basic Types of Local Agencies
 - b. Job Titles, Duties, and Requirements for Positions in Fire Agencies
11. Defense Planning
 - a. Built Environment
 - b. ISO Grading Schedule
 - c. Master Planning
 - d. Mutual/Automatic Aid

- e. Community Role
- f. Wildland/Urban Interface
- 12. Public and Private Support Organizations
 - a. National
 - b. Federal
 - c. State
 - d. Local
- 13. Advisory and Regulatory Agencies
 - a. Public
 - b. Private
- 14. Private Fire Suppression Organizations
 - a. Contract Services
 - b. Industrial Fire Brigades
- 15. Proprietary Services
- 16. Introduction to Fire Chemistry and Fire Behavior
 - a. Fire Triangle
 - b. Fire Tetrahedron
 - c. Fire Classifications
 - d. Fire Hazard Properties of Materials
 - e. Extinguishing Agents and Methods
 - f. Phases of Fire
 - g. Methods of Heat Transfer
- 17. Fire Department Facilities and Resources
 - a. Administrative Offices
 - b. Dispatch/Communications Centers
 - c. Fire Stations
 - d. Training Facilities
- 18. Types of Apparatus and Their Functions
 - a. Pumpers/Engines
 - b. Aerial Apparatus
 - c. Water Tenders
 - d. Rescue
 - e. Special
- 19. Equipment and Tools Carried on Apparatus
- 20. Personal Safety Equipment
- 21. Operational Functions of a Fire Department
 - a. Emergency Operations
 - b. Fire Prevention
 - c. Training
 - d. Administration
 - e. Non-Emergency Operations
 - i. Fire Station Daily Activities/Routine
 - ii. Apparatus and Equipment Maintenance
 - iii. Support Services
- 22. Emergency Operations
 - a. Personnel
 - i. Positions
 - ii. Fire Company Structure
 - iii. Administration
 - b. Alarm System
 - c. Standard Operating Procedures
- 23. Fire Prevention
 - a. Personnel/Positions
 - b. Responsibilities of the Fire Prevention Bureau
 - i. Inspections
 - ii. Records and Reports
 - iii. Investigations
 - iv. Plan Review
 - v. Hazard Abatement

- vi. Public Education
 - vii. Code Enforcement
 - c. Company Inspection Programs
 - d. Fire Information Reporting Systems
24. Training
- a. Personnel and Positions
 - b. Skill Development/Maintenance
 - c. Performance Standards
25. Fire Administration
- a. Personnel and Positions
 - b. Functions
 - i. Budgets
 - ii. Intra- and Interdepartmental Relationships
 - iii. Management Cycle
 - iv. Management by Objective
 - c. Relationship of Fire Department with Other Agencies
 - d. Rules and Regulations
 - i. Department Policies
 - ii. Contracts and Memoranda of Understanding
 - iii. Standard Operation Procedures
 - e. Internal and External Influences
 - i. Fire Service Labor Organizations
 - ii. Health and Safety Regulations
 - iii. Equal Employment Opportunity and Affirmative Action Programs
 - iv. California Joint Apprenticeship Program
 - v. Professional Associations
 - f. Computer Applications
26. Codes and Ordinances
- a. Federal, State, and Local
 - i. Kinds of Codes
 - ii. Purposes of Codes
 - iii. Contents of Codes
 - b. Responsibility of Enforcement
 - c. Relationship of Codes and Standards
 - d. Relationship of Federal, State, and Local Regulations
27. Building Design
- a. Occupancy Types
 - b. Detection systems
 - c. Suppression systems
28. Support Organizations
- a. Private Organizations
 - b. Public Organizations

Laboratory or Activity Content

None

Methods of Evaluation

Which of these methods will students use to demonstrate proficiency in the subject matter of this course? (Check all that apply):

Problem solving exercises
Written expression

Methods of Evaluation may include, but are not limited to, the following typical classroom assessment techniques/required assignments (check as many as are deemed appropriate):

Computational homework
Essays
Group projects
Individual projects
Objective exams
Oral presentations

Problem-Solving Assignments
 Problem-solving exams
 Quizzes
 Role playing
 Simulations

Instructional Methodology

Specify the methods of instruction that may be employed in this course

Audio-visual presentations
 Computer-aided presentations
 Collaborative group work
 Class activities
 Class discussions
 Case studies
 Distance Education
 Demonstrations
 Group discussions
 Internet research
 Lecture
 Role-playing
 Small group activities

Describe specific examples of the methods the instructor will use:

1. Instructor will lead mock oral interviews, where students will participate as a prospective candidate in an oral interview exam process. Other students will role play the position of evaluators.
2. Instructor will deliver training on how to correctly and effectively complete applications for fire service jobs.
3. Instructor will present different methods to perform occupational searches for jobs in the fire service.
4. Instructor will lecture and present information on history of the fire service, different apparatus types, rank structure, fire service traditions, nomenclature, fire suppression strategy and tactics and fire protection systems.
5. Instructor will lecture on firefighter duties, responsibilities and standard operating guidelines.
6. Instructor will present information on the AS Degree in Fire Technology and the BA degree in Emergency Management.

Representative Course Assignments

Writing Assignments

1. Reports, term papers, homework assignments based on course objectives.

Critical Thinking Assignments

1. Participate in small groups as a rotating oral interview board.
2. Participate in small groups in order to develop/describe applicable strategies and tactics for different types of emergency incidents.
3. Students will deliver a 10-minute presentation on a fire service tool describing terminology, safety, operations and maintenance of too.
4. Students will describe the duties and responsibilities of a firefighter.
5. Students will complete a term paper describing different types of emergency incidents while listing the standard operating guidelines for Fire Trucks and Fire Engines.
6. Students will research and present as small groups information about the Candidate Physical Agility Test(CPAT) and how to prepare for it.

Reading Assignments

1. Weekly assignments in text, handouts, and professional journals such as Fire House, NFPA Fire Journal, CSFA.

Skills Demonstrations

None

Other assignments (if applicable)

None

Outside Assignments

Representative Outside Assignments

1. Students will read one chapter per week from assigned book.
2. Students will prepare and deliver a 10-15 minute presentation on the tool of their choice.
3. Students will choose and research a Fire Department focusing on MQ entrance requirements, required certifications, core values, population, demographics, station staffing, target hazards and apparatus type. This information will be communicated to the class in the mock oral interview process.
4. Weekly short assignments related to class delivery and current fire activities.
5. Internet inquiry activities relating to major emergency incidents.
6. Students will visit a fire station to inquire about Department policies and procedures as they relate to service delivery.

District General Education

A. Natural Sciences

B. Social and Behavioral Sciences

C. Humanities

D. Language and Rationality

E. Health and Physical Education/Kinesiology

F. Ethnic Studies/Gender Studies

CSU GE-Breadth

Area A: English Language Communication and Critical Thinking

Area B: Scientific Inquiry and Quantitative Reasoning

Area C: Arts and Humanities

Area D: Social Sciences

Area E: Lifelong Learning and Self-Development

CSU Graduation Requirement in U.S. History, Constitution and American Ideals:

IGETC

Area 1: English Communication

Area 2A: Mathematical Concepts & Quantitative Reasoning

Area 3: Arts and Humanities

Area 4: Social and Behavioral Sciences

Area 5: Physical and Biological Sciences

Area 6: Languages Other than English (LOTE)

Textbooks and Lab Manuals

Resource Type

Textbook

Description

Loyd, Jason B. (2014). *Fundamentals of Fire and Emergency Service* (2nd). Pearson Brady. 0133419231

Resource Type

Other Resource Type

Description

Handouts pertaining to course objectives.

Resource Type

Textbook

Classic Textbook

No

Description

Klinoff, Robert W. (2016). *Introduction to Fire Protection and Emergency Services* (5th). Jones & Bartlett Learning

Distance Education Addendum

Definitions

Distance Education Modalities

- Hybrid (51%–99% online)
- Hybrid (1%–50% online)
- 100% online

Faculty Certifications

Faculty assigned to teach Hybrid or Fully Online sections of this course will receive training in how to satisfy the Federal and state regulations governing regular effective/substantive contact for distance education. The training will include common elements in the district-supported learning management system (LMS), online teaching methods, regular effective/substantive contact, and best practices.

Yes

Faculty assigned to teach Hybrid or Fully Online sections of this course will meet with the EAC Alternate Media Specialist to ensure that the course content meets the required Federal and state accessibility standards for access by students with disabilities. Common areas for discussion include accessibility of PDF files, images, captioning of videos, Power Point presentations, math and scientific notation, and ensuring the use of style mark-up in Word documents.

Yes

Regular Effective/Substantive Contact

Hybrid (1%–50% online) Modality:

Method of Instruction	Document typical activities or assignments for each method of instruction
Asynchronous Dialog (e.g., discussion board)	Students will post a discussion board topic such as the recent LAFD multiple Firefighter Injury incident and they will respond to another classmate or two with the intent for dialogue.
Synchronous Dialog (e.g., online chat)	Students will share their thoughts of the online lecture in an online chat with their classmates.

Hybrid (51%–99% online) Modality:

Method of Instruction	Document typical activities or assignments for each method of instruction
Asynchronous Dialog (e.g., discussion board)	Students will post a discussion board topic such as the recent LAFD multiple Firefighter Injury incident and they will respond to another classmate or two with the intent for dialogue.

Synchronous Dialog (e.g., online chat)	Students will share their thoughts of the online lecture in an online chat with their classmates.
Other DE (e.g., recorded lectures)	Students will watch online lecture videos thru Canvas.

100% online Modality:

Method of Instruction	Document typical activities or assignments for each method of instruction
Asynchronous Dialog (e.g., discussion board)	Students will post a discussion board topic such as the recent LAFD multiple Firefighter Injury incident and they will respond to another classmate or two with the intent for dialogue.
Other DE (e.g., recorded lectures)	Students will view weekly lectures via Canvas.
Other DE (e.g., recorded lectures)	Students will meet online with Instructor via Zoom.

Examinations

Hybrid (1%–50% online) Modality

- Online
- On campus

Hybrid (51%–99% online) Modality

- Online
- On campus

Primary Minimum Qualification

FIRE TECHNOLOGY

Review and Approval Dates

Department Chair

05/20/2020

Dean

05/20/2020

Technical Review

08/26/2020

Curriculum Committee

08/26/2020

Curriculum Committee

11/25/2020

CCCCO

MM/DD/YYYY

Control Number

CCC000234509

DOE/accreditation approval date

MM/DD/YYYY