

FIRE 78 Course Outline as of Fall 2024**CATALOG INFORMATION**

Dept and Nbr: FIRE 78 Title: FIRE SAFETY AND SURVIVAL

Full Title: Principles of Fire and Emergency Services Safety-Survival

Last Reviewed: 5/8/2023

| 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:

Catalog Description:

This course introduces students to the basic principles and history related to the national firefighter life safety initiatives, focusing on the need for cultural and behavioral change throughout the emergency services regarding first responder deaths and injuries.

Prerequisites/Corequisites:**Recommended Preparation:**

Eligibility for ENGL 100 or ESL 100

Limits on Enrollment:**Schedule of Classes Information:**

Description: This course introduces students to the basic principles and history related to the national firefighter life safety initiatives, focusing on the need for cultural and behavioral change throughout the emergency services regarding first responder deaths and injuries. (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: |
|---------------|----------------------|------------|-----------|

| | | | | |
|----------------------|--------------|------------|-----------|-----------|
| CSU Transfer: | Transferable | Effective: | Fall 2011 | Inactive: |
|----------------------|--------------|------------|-----------|-----------|

| | | | | |
|---------------------|--|------------|--|-----------|
| UC Transfer: | | Effective: | | Inactive: |
|---------------------|--|------------|--|-----------|

CID:

Certificate/Major Applicable:

Both Certificate and Major Applicable

COURSE CONTENT

Student Learning Outcomes:

At the conclusion of this course, the student should be able to:

1. Evaluate firefighter deaths and injuries and identify common factors contributing to fatal or near miss incidents.
2. Identify laws, codes, ordinances, standards and regulations, and governing bodies and organizations that mandate or regulate health and safety programs.
3. Describe the Incident Command System (ICS) and how health, safety, and personnel accountability is factored into emergency management.
4. Assess personal fitness level and develop a personal health and wellness program.

Objectives:

At the conclusion of this course, the student should be able to:

1. Describe the history of fire department safety programs and their relationship with fire service organizational culture.
2. List the agencies responsible for oversight of safety programs in the fire service and describe their role in monitoring, enforcing, investigating, and maintaining data on firefighter deaths and injuries.
3. Identify the leading causes of firefighter deaths and injuries by demonstrating the use of state and nationally based reporting systems.
4. Describe the relationship of firefighter fitness to occupational injuries.
5. Identify the equipment, training and response standards developed to minimize firefighter death and injuries.
6. Describe the concept of risk management and its application to a fire department setting.
7. Design a fire department Injury Illness and Prevention Program (IIPP) based on firefighter deaths and injury statistics.
8. Describe the laws and regulations applicable to a public safety agency.

Topics and Scope:

- I. Introduction to First Responder Safety and Survival

- A. History of fire service culture regarding safety, illness, and injury prevention
 - B. Organizational cultures
 - C. Multiple agencies/organizations
 - D. Individual roles, responsibilities, and behaviors
 - E. History of line-of-duty-deaths (LODD)
 - F. Common injuries and injury statistics
 - G. Agencies and jurisdictions
- II. Overview of National Health and Safety Organizations
- A. National Fire Protection Association (NFPA)
 - B. Occupational Safety and Health Administration (OSHA)
 - C. Data collection and the National Fire Incident Reporting System (NFIRS)
 - D. Research and investigation of injuries
 - 1. National Institute of Standards and Technology (NIST)
 - 2. National Institute of Occupational Safety and Health (NIOSH)
- III. Personal Fitness Awareness
- A. Cardiovascular health
 - B. Flexibility
 - C. Strength
- IV. Training, Equipment, and Response
- A. Training standards, certification requirements credentialing
 - B. Apparatus and equipment
 - C. Response to emergency scenes
 - 1. Seat belts
 - 2. Code 3 driving
 - 3. Defensive driving
 - D. Violence against first responders
 - 1. Scene security
 - 2. Criminal activity
 - E. Emerging technology
- V. Organizational Health and Safety Profile
- A. Personal and organizational accountability
 - B. Existing culture and prevailing attitudes
 - C. Internal investigations
- VI. Risk Management
- A. Strategies for minimizing risks
 - B. Correcting unsafe acts and influencing organizational culture.
 - C. Rapid intervention group
 - D. Legal considerations
 - E. IIPP
- VII. Prevention
- A. Home sprinklers and fire/carbon monoxide detection systems
 - B. Code enforcement
 - C. Public education /fire and life safety
 - D. Counseling and employee support
- VIII. Regulations
- A. Laws
 - B. Codes
 - C. Ordinances

Assignment:

1. Reading from assigned text and current articles and periodicals weekly (20-60 pages).

2. Answer weekly discussion questions.
3. Web-based research paper.
4. Presentations (2-3).
5. Weekly quizzes.
6. Individual student site visit to local fire agency to observe the application of safety programs in the field.
7. Midterm and final exams.

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.

| | |
|---|---------------------|
| Weekly discussion questions; research paper | Writing 15 - 30% |
|---|---------------------|

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

| | |
|-----------------------------|-----------------------------|
| Weekly discussion questions | Problem solving 10 - 20% |
|-----------------------------|-----------------------------|

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.

| | |
|---------------------------------|-------------------|
| Quizzes; midterm and final exam | Exams 50 - 70% |
|---------------------------------|-------------------|

Other: Includes any assessment tools that do not logically fit into the above categories.

| | |
|--|---------------------------|
| Attendance; participation; site visit; presentations | Other Category 5 - 10% |
|--|---------------------------|

Representative Textbooks and Materials:

- Fire Department Safety Officer. 2nd ed. IFSTA. Oklahoma City, OK. 2015 (classic).
 Resources for Fire Department Occupational Safety and Health. Foley, Steven N. (et al).
 Sudbury, MA. 2003 (classic).
 Firefighter Safety and Survival. 3rd ed. Zimmerman, Don, Jones & Bartlett. 2021.
 Fire Department Incident Safety Officer. 3rd ed. Dodson, David W. Florence, KY.
 Delmar/Cengage. 2016 (classic).