FIRE 71 Course Outline as of Spring 1991

CATALOG INFORMATION

Dept and Nbr: FIRE 71 Title: FIRE PROTECT ORGN
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	1	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:
Fire service and 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 services; fire chemistry and physics.

Prerequisites/Corequisites:

Recommended Preparation:
Eligibility for ENGL 100 or ESL 100.

Limits on Enrollment:

Schedule of Classes Information:
Description: State Core Course. Fire service and 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 sevices; fire chemistry and physics. (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 1981	Inactive:	
UC Transfer:		Effective:		Inactive:	

CID:

Certificate/Major Applicable:
Certificate Applicable Course

COURSE CONTENT

Outcomes and Objectives:
COURSE GOALS:
1. Develop an understanding of fire technology through an overview of fire technology, the fire service, and the fire protection field.
2. Develop an awareness of the working environment of a firefighter.
3. Become familiar with the basic information needed for entry into the fire service and for preparing for entry level examinations.

COURSE OBJECTIVES:
1. Analyze and describe the differences between the certificate, two-year, four-year degree programs, and state certification.
2. Describe the educational requirements, duties, and information sources for various occupations in fire protection.
3. Identify the basic components of fire as a chemical reaction, the major phases of fire, and the main factors that influence fire spread and fire behavior.
4. Identify the effects of fire on the environmene and the historical efforts made to protect society.
5. Identify the major organizations that contribute to fire protection.
6. Define and describe the purpose and scope of fire departments.
7. Identify the types of common fire department apparatus, equipment, and personal safety equipment used for fire fighting.
8. Identify the various codes, standards, ordinances, and regulations that affect fire protection.
9. Identify the various types of public and private fire protection equipment and systems.
10. Define the common elements of a fire prevention bureau.

11. Identify the various applications of computers in the fire service.
12. Define fire fighting strategy and tactics.
13. Describe the basic elements of fire fighter safety and survival.

Topics and Scope:

1. Introduction to Fire Technology
    a. Scope and content of Fire technology curriculum.
    b. Career potential assessment.
    c. Affirmative action & Equal Opportunity Commission
    d. Available training programs.
    e. Personnel development programs.
2. Fire Protection Career Opportunities
    a. Public fire protection careers.
    b. Private fire protection careers.
3. Public Fire Protection
    a. History of fire protection.
    b. Fire losses.
    c. Purpose and scope of fire agencies.
    d. Fire defense planning.
4. Fire Chemistry
    a. Introduction to the characteristics and behavior of fire.
5. Public and Private Support Organizations
    a. Types of organizations.
    b. Advisory and regulatory agencies.
    c. Private fire suppression organizations.
    d. Proprietary services.
6. Fire Department Resources
    a. Fire department facilities.
    b. Types of apparatus and their functions.
    c. Equipment and tools carried on apparatus.
    d. Personal safety equipment.
7. Operational Functions of a Fire Department
    a. Emergency operations.
    b. Fire prevention.
    c. Training.
    d. Administration.
    e. Non-emergency operations.
8. Emergency Operations
    a. Personnel
    b. Alarm system.
    c. Standard operating procedures.
9. Fire Prevention
    a. Personnel/positions.
    b. Responsibilities of the Fire Prevention Bureau.
    c. Company Inspection programs.
    d. Fire information reporting systems.
10. Training
    a. Personnel and positions.
    b. Skill development/maintenance.
    c. Performance standards.

11. Fire Administration
    a. Personnel and positions.
    b. Functions.
    c. Relationship of Fire Department with other Agencies.
    d. Rules and regulations.
    e. Internal and external influences.
    f. Computer applications.
12. Codes and ordinances
    a. Federal, state, and local.
    b. Responsibility for enforcement.
    c. Relationship of codes and standards.
    d. Relationship of federal, state, and local regulations.
13. Fire Protection Systems and Equipment
    a. Public land private systems.
    b. Extinguishing agents.
14. Emergency Incident Management
    a. Introduction to strategy development.
    b. Relationship of strategy to tactics.
    c. Incident command system.

A MORE DETAILED OUTLINE AVAILABLE IN THE A.J. DEPT.

Assignment:

The students will do the following:

1. Prepare, with a group, a written and oral analysis of a fire technology related subject chosen and researched by the group. The student will demonstrate an ability to operate within a team environemnt to research and present information.
2. Explain, both in writing and verbally, the various career options available in fire protection for two or more hypothetical individuals, given specific descriptions of those individuals.
3. Given the positions and functions within a fire department, develop an organization chart of a medium-sized fire department.
4. Describe in writing current activities or changes in operations in fire service agencies from research of trade-technical magazines and analyze their effects on the fire service.

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 papers	Writing 10 - 20%

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.

Class performances	Skill Demonstrations 5 - 10%

Exams: All forms of formal testing, other than skill performance exams.

Multiple choice, Completion	Exams 40 - 80%

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

None	Other Category 0 - 0%

Representative Textbooks and Materials:
Recommended required texts:
(1) IFSTA, Fire Service orientation and Terminology, 3rd edition, 1993.
(2) Klinof, Introduction to Fire Protection, Delmar Thomson, 2nd edition, 2003.
(3) Klinof, Introduction to Fire Protection Student Manual, Delmar Thomson, 2nd edition, 2003.