FIRE 208.1 Course Outline as of Fall 2000

CATALOG INFORMATION

Dept and Nbr: FIRE 208.1 Title: FIREFIGHTER 1-ACAD
Full Title: Firefighter I
Last Reviewed: 10/27/2014

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	12.00	Lecture Scheduled	6.00	24	Lecture Scheduled	144.00
Minimum	12.00	Lab Scheduled	10.00	4	Lab Scheduled	240.00
		Contact DHR	0		Contact DHR	0
		Contact Total	16.00		Contact Total	384.00
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 288.00 Total Student Learning Hours: 672.00

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:
An intensive series of theoretical and practical lessons and exercises which, when combined with Emergency Care, meet the educational requirements for certification by the State Board of Fire Services.

Prerequisites/Corequisites:
Course Completion of FIRE 71 (or FIRE 51)

Recommended Preparation:

Limits on Enrollment:

Schedule of Classes Information:
Description: An intensive series of theoretical and practical lessons and exercises which satisfy the education requirements for certification as Firefighter I by the State Board of Fire Services. (Grade Only)
Prerequisites/Corequisites: Course Completion of FIRE 71 (or FIRE 51)
Recommended:
Limits on Enrollment:

Transfer Credit:
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:	Effective:	Inactive:
UC Transfer:	Effective:	Inactive:

CID:

Certificate/Major Applicable:
Not Certificate/Major Applicable

COURSE CONTENT

Outcomes and Objectives:
OUTCOMES & OBJECTIVES

1. Students shall identify the roles, functions, and responsibilities of the professional firefighter.
2. Demonstrate the proficiencies needed to function in a hazardous atmosphere through the use of protective clothing and self contained breathing apparatus.
3. Students shall define the necessary knowledge and understanding of fire chemistry and behavior.
4. Recognize and demonstrate the proficiencies needed to safely operate manual & power driven tools, equipment, and techniques, individually and as a member of a team.
5. List and describe the practices necessary to utilize modern fire suppression equipment and techniques, individually and as a member of a team.
6. Define and identify the procedure necessary to protect property from non-fire damage through the use of salvage techniques and equipment.
7. To identify the necessary indicators that determine the cause and origin of fires, and to recognize and protect evidence of arson.
8. The student will demonstrate knowledge of the roles and functions of firefighters.
9. Students will identify the importance of chemistry & behavior.
10. List the different firefighting tools and equipment.
11. The students will identify wildland terminology, demonstrate an awareness of wildland firefighting safety. List wildland tools and equipment and identify wildland fire behavior.
12. Prepare to function as a member of a fire suppression team, through hands-on performance, and live fire exercises.

Practical evaluations will be demonstrated on six major aspects, i.e. Rope, Hose, SCBA, Ladders, Team Tasks, and Physical Fitness Agility.

13. The students will complete a Task Checklist on both written and manipulative final examnations.

Topics and Scope:

I. ORGANIZATION AND RESPONSIBILITY
- A. Laws and Regulations
  1. Government Organizations
  2. Personnel rules and regulations
  3. Retirement systems, Compensation Laws
  4. Agency Rules and Regulations
- B. Personnel and Functions
  1. Fire Dept. functions
  2. Duties of personnel
  3. Personal development programs
  4. Obedience and obligation to duty
- C. Professional Organizations
  1. National, State, and Local Organizations

II. APPARATUS AND EQUIPMENT OPERATION
- A. Forcible Entry and Misc. Tools
  1. Cutting, boring, and sawing tools
  2. Battering, carrying, digging, prying, and striking tools
  3. Lighting equipment
  4. Ventilation equipment
- B. Lifting and Hoisting Equipment
  1. Ropes, knots, and hitches
  2. Lifting and spreading equipment
  3. Hoisting and pulling equipment
- C. Extinguishers and Proportioners
  1. Pressure Type Extinguishers
  2. Foam Generators
  3. Water-Additive Proportioners
- D Hose, Nozzles and Fittings
  1. Coupling Hose
  2. Roll, Fold and Carry Hose
  3. Nozzles, Valves, Fittings and Other Devices
  4. Siamese and Wye Lines
  5. Extend and Reduce Lines
  6. Load Hose on Apparatus
- E. Hose Evolutions
  1. Operate Hydrants
  2. Lay Single Lines
  3. Lay Multiple Lines
  4. Connect Lines to Auxiliary Appliances
  5. Master Stream Appliances
  6. Operate Lines Above and Below Street Level
- F. Ladders
  1. Carry, Raise, and Lower Ladders

2. Climb and Work from Ladders
3. Ladders as Improvised Equipment

G. Building Equipment
1. Elevators
2. Fire Protection Systems
3. Fire Escape Systems

H. Rescue Tools and Equipment
1. Breathing Apparatus
2. Lifelines and Belts
3. Protective Clothing

III. Water Supply

A. Hydraulics
1. Range of Fire Streams
2. Reaction of Fire Streams

IV. Fire Control

A. Fire Behavior
1. Classes of Fire
2. Theory and Fundamentals of Combustion
3. Theory of Heat Transfer
4. Theory of Extinguishment
5. Fire Characteristics of Solids
6. Fire Characteristics of Flammable Liquids and Gasses
7. Products of Combustion
8. Hazardous and Explosive Materials
   a. First Responder Cert.
9. Effects of Extinguishing Agent Application

V. Wildland Interface Firefighting

A. Orientation
1. Wildland Firefighting Terminology
2. Fundamentals of heat transfer
3. Wildland fire behavior
   a. Fuels
   b. Topography
   c. Weather

B. Tactics and Strategy
1. Parts of a wildland
2. Incident Command System

C. Firefighter Safety and Survival
1. Fire shelters
2. Protective clothing
3. Look up, Look down, Look around
4. Urban interface hazards

D. Suppression Methods
1. Wildland tools and equipment
2. Additional resources

"Expanded Course Outline Available in Department"

Assignment:

The student will:
1. Analyze, identify, and describe the functions and elements of self-contained breathing apparatus.

2. Identify factors necessary to determine the cause and origin of fires, and to recognize and protect evidence of arson.

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, Lab reports	Writing 5 - 10%

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

Field work, Quizzes, Exams	Problem solving 5 - 10%

Skill Demonstrations: All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

Class performances, Field work, Performance exams	Skill Demonstrations 40 - 60%

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

Multiple choice	Exams 30 - 50%

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

None	Other Category 0 - 0%

Representative Textbooks and Materials:
ESSENTIALS OF FIREFIGHTING, 4TH EDITION; IFSTA
HAZMAT SYLLABUS
DOT HANDBOOK, CURRENT EDITION
ETHICS, RESPECT AND WORK RELATIONS SYLLABUS
ICS SYLLABUS
CRITICAL STRESS DEBRIEFING SYLLABUS
PERFORMANCE STANDARDS