College of San Mateo
Official Course Outline

1. **COURSE ID:** FIRE 793 **TITLE:** Firefighter I Academy
   Units: 12.0 units **Hours/Semester:** 136.0-153.0 Lecture hours; 168.0-189.0 Lab hours; and 272.0-306.0 Homework hours
   Method of Grading: Pass/No Pass Only
   Prerequisite: Proof of Emergency Medical Technician certification or Paramedic licensure. FIRE 715, or equivalent course from another accredited California Community College Fire Technology program. Successful completion of an additional three units of Fire Technology coursework. Admission to the Fire Academy.

2. **COURSE DESIGNATION:**
   Degree Credit
   Transfer credit: none

3. **COURSE DESCRIPTIONS:**
   Catalog Description:
   Pre-service instruction in basic firefighting knowledge and skills. Lecture and manipulative instruction in all areas of responsibility for a firefighter. (Certificate of course completion issued by the Fire Technology Department.)

4. **STUDENT LEARNING OUTCOME(S) (SLO'S):**
   Upon successful completion of this course, a student will meet the following outcomes:
   1. Recognize the tools used in firefighting
   2. Discuss the techniques and strategies used in firefighting
   3. Demonstrate safe practices by using standard safety procedures
   4. Demonstrate the use of the tools, techniques and strategies used in firefighting

5. **SPECIFIC INSTRUCTIONAL OBJECTIVES:**
   Upon successful completion of this course, a student will be able to:
   1. Recognize the tools used in firefighting
   2. Discuss the techniques and strategies used in firefighting
   3. Demonstrate safe practices by using standard safety procedures
   4. Demonstrate the use of the tools, techniques and strategies used in firefighting

6. **COURSE CONTENT:**
   Lecture Content:
   1. Introduction
      A. Orientation and Administration
      B. Fire Fighter I Certification Process
      C. General Knowledge Requirements
   2. Fire Fighter Safety
      A. Health and Safety
      B. Structural Personal Protective Ensemble
      C. Self-Contained Breathing Apparatus (SCBA)
      D. Responding on an Apparatus
      E. Operating at an Emergency Scene
   3. Communications
      A. Operating a Phone in a Non-Emergency Situation
      B. Initiating a Response to an Emergency
      C. Operating Fire Department Radios
   4. Fire Tools and Equipment
      A. Ropes and Knots
      B. Hand and Power Tools
      C. Portable Electric and Lighting Equipment
      D. Maintenance
   5. Structural Fire Suppression
      A. Building Construction and Related Hazards
      B. Fire Behavior

C. Fire Extinguishers
D. Water Supply Systems
E. Fire Hose
F. Utility Control at Emergencies
G. Ground Ladder Operations
H. Forcible Entry
I. Structure Fire Search and Rescue Operations
J. Structural Fire Fighting Operations
K. Horizontal Ventilation Operations
L. Vertical Ventilation Operations
M. Property Conservation
N. Overhaul

6. Fire Fighter Survival
   A. Structural Fire Fighter Survival
7. Confined Space Rescue Awareness
   A. Introduction to Cal/OSHA Code, Confined Space Identification and Dangers
   B. Atmospheric Hazards and Air Monitors
   C. Physical and Engulfment Hazards
   D. Lock-Out/Tag-Out Procedures and Entry Permits
   E. Ventilation Equipment and Techniques
   F. Respiratory Equipment and Techniques
   G. Communications Equipment and Techniques
   H. Entrant Retrieval Equipment
   I. Confined Space Operational Positions and Responsibilities
8. Suppression of Fires Outside of a Structure
   A. Exterior Fires
   B. Passenger Vehicle Fires
9. Wildland Fire Suppression
   A. Wildland Response
   B. Wildland Personal Protective Equipment
   C. Wildland Tools and Equipment
   D. Wildland Fire Behavior
   E. Wildland Fire Safety
   F. Human Factors on the Fireline
   G. Wildland Suppression
   H. Reinforcing a Fireline
   I. Wildland Urban Interface
   J. Mop-Up Operations
   K. Conducting Patrols
10. Hazardous Materials/Weapons of Mass Destruction (WMD)
    A. Recognizing Hazardous Materials/WMD
    B. Identifying/Analyzing Hazardous Materials/WMD Incidents
    C. Emergency Decontamination
    D. Mitigating a Hazardous Materials/WMD Incident

Lab Content:

1. Firefighter Safety
2. Communications
3. Fire Tools and Equipment
4. Structural Fire Suppression
5. Firefighter Survival
6. Confined Space Rescue Awareness
7. Suppression of Fires Outside of a Structure
8. Wildland Fire Suppression
9. Hazardous Materials/Weapons of Mass Destruction

7. **REPRESENTATIVE METHODS OF INSTRUCTION:**

Typical methods of instruction may include:

A. Lecture
B. Activity
C. Discussion

D. Observation and Demonstration

8. **REPRESENTATIVE ASSIGNMENTS**

Representative assignments in this course may include, but are not limited to the following:

Writing Assignments:

Assignments from the Firefighter I Course Plan, such as:
Develop an agency mission statement
Develop a physical fitness/nutrition plan
Develop case studies resulting in firefighter injury or death

Reading Assignments:

Assigned reading for class session

Other Outside Assignments:

Skills practice

9. **REPRESENTATIVE METHODS OF EVALUATION**

Representative methods of evaluation may include:

A. Class Participation
B. Class Performance
C. Final Class Performance
D. Quizzes
E. Written examination
F. The Academy Directors and the Fire Technology Coordinator have decided that in order to successfully complete the Firefighter I Academy, and receive a Certificate of Course Completion, students will need to finish the course with a grade of 80% or higher. Theoretically, students in the 70% range could pass FIRE 793, but would not receive the course completion certificate, which they need for the State certification. For that reason, this course would be graded on a Pass/No Pass basis, allowing C students to retake the course for their certificate. Evaluation may include written exams and quizzes, manipulative skills examinations, and written assignments.

10. **REPRESENTATIVE TEXT(S):**

Possible textbooks include:

A. Teie, William C. *Wildland Firefighting Fundamentals*, 2nd ed. Deer Valley Press, 2010
B. Jones & Barlett Learning. *Fundamentals of Fire Fighting Skill*, 3rd ed. Jones & Barlett Learning, 2014

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Course Originator: Michelle Schneider