

COURSE OUTLINE
Introduction to Fire Technology

SECTION I

SUBJECT AREA AND COURSE NUMBER: Fire Technology – FTA

COURSE TITLE: Introduction to Fire Technology

112

COURSE CATALOG DESCRIPTION: This introductory course reviews the nature and extent of the fire problem in the United States; the characteristics and behavior of fire; the state, regional, national and international organizations having responsibility for fire control and suppression; extinguishing agents; fire protection equipment and other basic aspects of fire protection technology.

LECTURE HOURS PER WEEK: 3

CREDIT HOURS: 3

LAB HOURS PER WEEK: 0

PREREQUISITES: None

SECTION II

- A. SCOPE:** This course, primarily for persons who wish to become firefighters, helps prepare them for the competitive firefighter selection process and also introduces them to other careers in fire protection in both the public and private sectors. Students will also learn about the system components of modern fire department responsibilities including suppression, prevention, public education, emergency medical service, hazardous materials response, and urban search and rescue.
- B. REQUIRED WORK:** Students will be expected to complete all assigned readings and homework and submit all written work on time.
- C. ATTENDANCE AND PARTICIPATION:** Regular attendance and class participation are expected.
- D. METHODS OF INSTRUCTION:** The methods of instruction are determined by each instructor and may include but are not limited to lecture/discussion, small group tasks, collaborative learning, experimental /exploration, distance learning, student presentations, or use of technologies such as audio-visual materials, computers, and internet.

E. OBJECTIVES, OUTCOMES, AND ASSESSMENT: The following objectives and outcomes represent the department's core requirements for student achievement.

LEARNING OBJECTIVES	LEARNING OUTCOMES	ASSESSMENT METHODS
To demonstrate an understanding of	Student will	As measured by
1. The student's role in the learning process	a) Attend regularly, on time, and stay for entire class period; b) Complete assignments and contribute positively to the class	Attendance records Class records
2. The terminology of the fire service	Use terms properly in oral and written communication	Oral and written exams
3. The history of the fire service	Describe history and philosophy of the modern fire service	Exam
4. Basic fire chemistry	Explain the combustion process, the four elements of fire, and basic suppression theory	Class discussions and exams
5. The role of fire service related organizations	Explain relationship between organizations and the fire service	Written exam
6. Careers in the fire service	Identify fire protection and emergency service careers in the public and private sectors	Exam
7. The scope, purpose and organizational structure of fire and emergency service	Understand suppression, prevention, education, and medical services	Class discussion and exam
8. Fire department management	Describe administration, management and training duties	Class discussion and exam
9. The organization of public fire protection	Describe principles and positions in fire protection	Class discussion and exam
10. Incident Management Systems (IMS) in the United States	Understand IMS and the eight roles in it	Role play and written exam

F. TEXTS AND MATERIALS: As selected by instructor.

G. INFORMATION TECHNOLOGY: As determined by instructor.