



COURSE OUTLINE : FIRE 101

D Credit – Degree Applicable

COURSE ID 001481

Cyclical Review: MAY 2021

COURSE DISCIPLINE : FIRE

COURSE NUMBER : 101

COURSE TITLE (FULL) : Principles Of Fire Emergency Services

COURSE TITLE (SHORT) : Prin Of Fire Emergency Service

CALIFORNIA STATE UNIVERSITY SYSTEM C-ID : FIRE 100 X – Principles of Emergency Services

ACADEMIC SENATE DISCIPLINE: Fire Technology

CATALOG DESCRIPTION

FIRE 101 provides an overview to fire protection and emergency services; career opportunities in fire protection and related fields; culture and history of emergency services; fire loss analysis; organization and function of public and private fire protection services; fire departments as part of local government; laws and regulations affecting the fire service; fire service nomenclature; specific fire protection functions; basic fire chemistry and physics; introduction to fire protection systems; introduction to fire strategy and tactics; life safety initiatives.

Total Lecture Units:3.00

Total Laboratory Units: 0.00

Total Course Units: 3.00

Total Lecture Hours:54.00

Total Laboratory Hours: 0.00

Total Laboratory Hours To Be Arranged: 0.00

Total Contact Hours: 54.00

Total Out-of-Class Hours: 108.00

Recommended Preparation: ENGL 100 or ESL 151.

ENTRY STANDARDS

	Subject	Number	Title	Description	Include
1	ESL	151	Reading And Composition V	employ basic library research techniques;	Yes
2	ENGL	100	Writing Workshop	write a summary of a contemporary article or story with correct citation techniques;	Yes



EXIT STANDARDS

- 1 analyze the basic components of fire as a chemical reaction, the major phases of fire, and examine the main factors that influence fire spread and behavior;
- 2 differentiate between fire service training and education; fire protection certificate program and a fire service degree program; and explain the value of education in the fire service;
- 3 list and describe the major organizations that provide emergency response service and illustrate how they interrelate;
- 4 identify fire protection and emergency-service careers in both the public and in the private sector;
- 5 synthesize the role of national, state and local support organizations in fire protection and emergency services;
- 6 discuss and describe the scope, purpose, and organizational structure of fire and emergency services;
- 7 describe the common types of fire and emergency services facilities, equipment, and apparatus.

STUDENT LEARNING OUTCOMES

- 1 describe and discuss the components of the history, philosophy, and components of the modern day fire service
- 2 analyze and describe the science of fire behavior
- 3 compare and contrast effective management concepts for various emergency situations

COURSE CONTENT WITH INSTRUCTIONAL HOURS

	Description	Lecture	Lab	Total Hours
1	Careers in the Fire Protection/Emergency services <ul style="list-style-type: none"> • Opportunities/private, industrial, local, municipal, state and federal • Pay, hours of duty, benefits, promotion, retirement qualifications • Selection process • Career preparation • Wellness and fitness for emergency service 	8	0	8



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2	<p>History</p> <ul style="list-style-type: none"> • The evolution of fire protection • The U.S. fire problem; life and property • Fire Service Tradition 	8	0	8
3	<p>Fire investigation</p> <ul style="list-style-type: none"> • Code enforcement • Public education • Scientific and technical vocabulary 	6	0	6
4	<p>Fire Behavior</p> <ul style="list-style-type: none"> • Stages of fire • Flammability characteristics of solids, liquids and gases 	4	0	4
5	<p>Building Design and Construction</p> <ul style="list-style-type: none"> • Residential Construction • Commercial Construction 	4	0	4
6	<p>Fire Detection and Suppression</p> <ul style="list-style-type: none"> • Education of the public and fire prevention 	6	0	6
7	<p>The Role of Public and Private Support</p> <ul style="list-style-type: none"> • Local • State • Federal • International 	4	0	4



8	Fire and Emergency Services Equipment and Facilities <ul style="list-style-type: none"> • Types of equipment • Types of facilities • Types of engines and other response vehicles 	8	0	8
9	Manangement <ul style="list-style-type: none"> • Emergency operations • Organizational structure of fire and emergency services 	6	0	6
				54

OUT OF CLASS ASSIGNMENTS

- 1 homework (e.g. true or false questions about the roles of local, state and federal agencies in fire management)
- 2 individual projects (e.g. written assignment, reports written summary of a fire technology incident report)
- 3 group projects (e.g. research fire department operations)

METHODS OF EVALUATION

- 1 Midterm examination
- 2 Final examination.

METHODS OF INSTRUCTION

- Lecture
- Laboratory
- Studio
- Discussion
- Multimedia
- Tutorial
- Independent Study
- Collaboratory Learning
- Demonstration



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Field Activities (Trips)

Guest Speakers

Presentations

TEXTBOOKS

Title	Type	Publisher	Edition	Medium	Author	ISBN	Date
Introduction to Fire Protection and Emergency Services	Required	Jones & Bartlett Learning	6	Print	Robert Klinoff	978-1284180152	2021