

INTRODUCTION TO THE CLASS

Welcome to the Cabrillo College Public Safety Departments Fire Science curriculum. We are proud to present the course *Wildlands Fire Control*. This is a program elective class toward meeting the requirements for an Associate Degree in Fire Protection Technology.

This document will do the following:

1. Present an orientation to the course.
2. Outline the requirements of the class.
3. Present the Session topics.
4. Outline the course evaluation process.
5. Specify Required Textbook.
6. Specify Hardware & Software requirements.

WEEKLY SCHEDULE:

- Week #1 --- Orientation and Introduction
FIRELINE SAFETY
- Week #2 --- FIRE WEATHER
- Week #3 --- TOPOGRAPHY AND FUELS
- Week #4 --- WILDLAND FIRE BEHAVIOR
- Week #5 --- FIRELINE CONSTRUCTION & USE OF WATER AND FIRE
- Week #6 --- USE OF FIREFIGHTING RESOURCES
- Week #7 --- INITIAL ATTACK: STRATEGIES AND TACTICS
- Week #8 **MIDTERM EXAM**
- Week #9 --- WILDLAND/URBAN FIREFIGHTING STRATEGIES AND TACTICS
- Week #10 -- INCIDENT COMMAND SYSTEM
- Week #11 -- FIREFIGHTING REALITIES
- Week #12 -- MAP READING
- Week #13 -- FIRE PREVENTION
- Week #14 -- HAZARDOUS MATERIAL RECOGNITION
- Week #15 -- USE AND CARE OF HAND TOOLS
- Week #16-- **FINAL EXAM**

COURSE SYLLABUS

Course Title:	FT-8 Wildlands Fire Control
Instructor:	Norcliff Wiley, Deputy Fire Chief--Retired Salinas Fire Department
Unit Credits:	3 Semester Units
Transfer Credit:	CSU
Description:	Provides the firefighter or fire protection technology major with a fundamental knowledge of the factors affecting wildland fire prevention, fire behavior, and control techniques.

STUDENT LEARNING OUTCOMES

Students will be able to:

1. Synthesize California's fire problem and the protection organization used to suppress these fires and identify the specific design requirements of wildland fire apparatus.
2. Analyze fireline accidents (case studies) and determine causes and effects.
3. Critically assess fire problems and determine how to control a case study fire.

OBJECTIVES:

- Recognize how human factors affect fire line safety.
- Distinguish among wind conditions that are especially dangerous to firefighters.
- Identify factors of topography that affect wildland fire behavior.
- Identify the primary factors that influence how a wildland fire will burn.
- Identify fundamentals of fire line construction.
- Identify water management principles for fighting wildland fires
- Discuss the use of engine companies in fighting wildland fires
- Distinguish among initial attack tactics for wildland fires
- Identify conditions present during a wildland/urban interface fire that mandate the use of special strategies and tactics.
- Distinguish among Incident Command System organizational functions.
- Identify basic firefighting tips to help you avoid dangerous situations.
- Explain basic principles of reading different types of maps.
- Describe the components of a wildland fire prevention program.
- Identify general guidelines when responding to possible hazardous materials emergencies.
- Identify basic principles for the use and care of wildland firefighting hand tools.

METHODS OF INSTRUCTION (ONLINE):

- **Read** appropriate Chapter in Textbook.
- **Review** PowerPoint Presentation for each session.
- **Complete** Textbook Chapter Review Questions.
- **Select and Post** a Response to one Textbook Chapter Review Question each week.
- **Complete & Submit** online quiz for each weekly session.

EVALUATION:

Students' grade will be based on required Assignments, Quizzes & Exams, including:

- 1. Weekly Discussion Topic Responses**
- 2. Completion of the Weekly Quizzes.**
- 3. Term Paper**
- 4. Midterm and Final Examination**

TEXT: (REQUIRED)

Firefighter's Handbook On Wildland Firefighting, 4th Edition (2018)

By William C. Teie

Fire Protection Publications (FPP)

ISBN: 978-0-87939-676-3

Obtainable through IFSTA and Cabrillo College Bookstore

HARDWARE AND SOFTWARE REQUIREMENTS:

You will need regular access to a computer and one of the following browsers:

- Google Chrome
- Mozilla Firefox
- Safari
- Brave

As well the free software from: <http://www.adobe.com/products/acrobat/readstep2.html>

- Adobe Reader

HARDWARE AND SOFTWARE REQUIREMENTS continued...

It is required to have access to Word Processing software that can save documents to **.doc or .docx format** for submitting Assignments.

Although not required, it would certainly help to have a current version of: Microsoft Office (or at minimum Microsoft Word).

COURSE SCHEDULE (OUTLINE)

<u>DATE</u>	<u>Week#</u>	<u>Chapter</u>	<u>Topics</u>
1/29/24	1		Orientation and Introduction
		1	FIRELINE SAFETY
2/05/24	2	2	FIRE WEATHER
2/12/24	3	3	TOPOGRAPHY AND FUELS
2/19/24	4	4	WILDLAND FIRE BEHAVIOR
2/26/24	5	5-6	FIRELINE CONSTRUCTION & USE OF WATER AND FIRE
3/04/24	6	7	USE OF FIREFIGHTING RESOURCES
3/11/24	7	8	INITIAL ATTACK: STRATEGIES AND TACTICS
3/18-25/24	8		MIDTERM EXAM
3/25-30/24			SPRING BREAK! – No Class!
4/01/24	9	9	WILDLAND/URBAN FIREFIGHTING STRATEGIES AND TACTICS
4/08/24	10	10	INCIDENT COMMAND SYSTEM
4/15/24	11	11	FIREFIGHTING REALITIES
4/22/24	12	12	MAP READING
4/29/24	13	13	FIRE PREVENTION
5/06/24	14	14	HAZARDOUS MATERIAL RECOGNITION
5/13/24	15	15	USE AND CARE OF HAND TOOLS
5/20-25/24	16		FINAL EXAM