

# FOR 105: WILDLAND FIRE MANAGEMENT

## Citrus College Course Outline of Record

Heading	Value
Effective Term:	Fall 2021
Credits:	3
Total Contact Hours:	54
Lecture Hours :	54
Lab Hours:	0
Hours Arranged:	0
Outside of Class Hours:	108
Strongly Recommended:	ENGL 101.
Transferable to CSU:	Yes
Transferable to UC:	No
Grading Method:	Standard Letter, Pass/No Pass

## Catalog Course Description

A course designed to provide the knowledge of the factors affecting fire behavior, fire control techniques and wildland fire prevention. Factors of topography, fuels and weather will be included. 54 lecture hours.

## Course Objectives

- identify the factors of fuels and describe fire behavior conditions typical of various fuel characteristics
- identify the factors of topography and recognize how they affect fuels, weather, and the speed of wild fires
- identify the weather elements and describe how they affect fuel availability and general fire behavior
- explain how fire behavior factors affect fireline location and standards
- identify methods of getting the best fire weather forecasts
- interpret, apply, and adapt fire weather forecasts
- predict the spread of fire given basic fire behavior information

## Major Course Content

1. Introduction
2. Wildland Fire Behavior: Fire, Weather, Topography
3. Fire Apparatus and Communications Equipment
4. Wildland Fire Fighting Tools & Personal Protective Equip.
5. Water Supply
6. Initial Fireground Command
7. Fire Suppression Methods
8. Wildland/Urban Interface Fire Suppression
9. Firefighter Safety and Survival
10. Fire Prevention and Investigation
11. Fire Protection Planning

## Examples of Required Writing Assignments

Answer a short essay question on an exam such as: A wildland/urban fire fighting situation – Your engine and crew are the first to be called

out to an upland residential neighborhood in the foothills of Glendora, California. At the scene, you observe old growth fuels (dense coastal sage scrub and chaparral) within 30 feet and on three sides of the house you are assigned to protect. The fire is burning downhill approximately 250 feet from the house and moving toward it at medium rate of speed. The wind is blowing 15 mph from the fire toward you and your crew. Other units called to the scene are more than 20 minutes away (narrow roads). Indicate the type of “strategy” you would use to protect that house, why you chose that strategy, and how you would implement that strategy. Remember, you must be able to justify your actions and be able to defend them.

## Examples of Outside Assignments

Chapter 2 – Wildland Fire Behavior: Fuel, Weather, and Topography: Study Questions:

1. Combustion Process: fire is a by-product of a larger process called combustion. Rapid oxidation occurs in two forms. Identify and explain the two forms
2. Identify the following terms: Combustion Process, Conduction, Convection, Radiation, and Fuel
3. In living plants, the percentage of fuel moisture varies according to (list three):
4. Fuel moisture in dead fuels depends on (list three):
5. Describe the following: Fuel Position, Subsurface Fuels, Surface Fuels, Flashy Fuels, Ladder Fuels, Aerial Fuels, Fuel Loading, Fuel Continuity, Continuous Fuels, Fuel Compaction, Fuel Size

## Instruction Type(s)

Lecture, Online Education Lecture