

# FIRE 290 : S-290 INTERMEDIATE WILDFIRE BEHAVIOR

---

## Transcript title

S-290 Inter. Wildfire Behavior

## Credits

3

## Grading mode

Standard letter grades

## Total contact hours

30

## Lecture hours

30

## Prerequisites

FIRE 125.

## Course Description

Prepares the prospective fireline supervisor to undertake safe and effective fire management operations. Second course in a series that collectively serves to develop fire behavior prediction knowledge and skills. Discusses fire environment differences as necessary; instructor should stress local conditions. National Wildfire Coordinating Group (NWCG) certified course.

## Course learning outcomes

1. Identify and describe the characteristics of fuels, weather, and topography that influence wildland fire behavior.
2. Describe the interaction of fuels, weather, and topography on wildland fire behavior, fireline tactics, and safety.
3. Describe the causes of extreme fire behavior conditions (long range spotting, crowning, and fire whirls) that develop due to weather, fuels, and/or topography.
4. Interpret, communicate, apply, and document wildland fire behavior and weather information.

## Content outline

The learning outcomes are those of the National Wildfire Coordinating Group (NWCG).

1. Introduction
2. The fire environment
3. Topographic influences on wildland fire behavior
4. Fuels
5. Basic weather processes
6. Temperature and humidity relationships
7. Atmospheric stability
8. Wind systems
9. Keeping current with the weather
10. Observing the weather
11. Fuel moisture

12. Extreme wildland fire behavior
13. Gauging fire behavior and guiding fireline decisions

## Required materials

All material is provided.