

NATR 230 : Wildland Fire Science

Credits 6

Quarter Offered Spring

Wildland fire science examines the causes, consequences, and benefits of wildfire, and how to prevent and manage catastrophic wildfires. This class includes analysis of wildfire behavior, suppression tools, and human factors in wildland fire service. Class prepares students for Wildland Fire Incident Qualification Card Certification. This class may include students from multiple sections.

Course Outcomes

Identify and discuss key characteristics of the primary wildland fire environment components - fuels, weather, and topography.

Identify critical fire weather factors that, combined with receptive fuels, may result in extreme fire behavior.

Recognize how alignment of fuels, weather, and topography can increase the potential for extreme fire behavior.

Describe what the Lookouts, Communications, Escape Routes, and Safety Zones (LCES) system is and how it relates to the Standard Firefighting Orders.

Describe the methods for extinguishing a fire with or without the use of water.

Demonstrate the ability to construct fireline to required standards using various methods, tools and equipment, and techniques.

Discuss responsibilities of effective crews/teams operating in high risk, dynamic work environments.