

VALLEY ROP in partnership with U.S. FOREST SERVICE COURSE FACTSHEET

Course: **Wildland Fire Science**
(Spring Semester)
(Located at Reedley High School)
(180 clock hours in one semester, 10 credits per semester)

Prerequisites:

- Students must be of senior status
- Must have at least a 2.0 GPA
- Must have completed Intro to Fire Technology with 70% or higher, **or** be selected through an application and interview process

Certifications:

This course prepares you with basic firefighting and conservation entry-level skills to enter employment with the United States Forest Service as Firefighter, Hot Shot, and/or Hand Crew. It prepares students to earn industry certifications in Intro to Incident Command System (I-100), Intro to Wildland Fire Behavior (S-190), Firefighter Training (S-130), and Wildland Powersaws (S-212).

Articulation:

This course is articulated with Reedley College Wildland Fire Technology program (3 units). Upon successful completion of the course and achievement of the basic certifications, students may earn more credits for articulation with Reedley College by working for the USDA Forest Service Summer Intern program.

Course Outcomes:

- Demonstrate the knowledge of all safety practices, including fire safety, and pass a safety test with 100 percent accuracy.
- Be knowledgeable about the related job market opportunities and the entry-level skills needed for employment.
- Exhibit knowledge of forest conservation theories, strategies, and practices.
- Demonstrate firebreak techniques by building a firebreak.
- Explain backfiring and demonstrate procedures and techniques for backfiring.
- Demonstrate the use of and sharpening techniques for hand tools.
- Demonstrate application of fire engines, fire pumps, and fire hose use.
- Explain and demonstrate the proper use of chainsaws and all chainsaw safety rules.
- Demonstrate basic fire fighting skills and techniques.
- Demonstrate survival skills.
- Demonstrate the principles and methods of fire line construction.
- Explain factors that affect fire behavior.
- Demonstrate mop-up tactics.
- Demonstrate safety factors and proper use of power saws.
- Demonstrate use of fire extinguishers.
- Understand structure and vehicle fires.
- Demonstrate structure protection.
- Identify and interpret maps.
- Demonstrate use of a compass.
- Demonstrate principles of fire investigations
- Demonstrate Forest Service law environment practices.
- Explain range, timeline, and wildlife management principles.
- Complete physical fitness training -- Pack Test.
- Complete a job search unit including applications and resumes.