

Discipline: Agriculture	Sub-discipline: Forestry/Natural Resources
General Course Title: Wildland Fire Technology	Min. Units: 3 Semester
Proposed Suffix: L	
<p>Course Description: Preparation for employment as a wildland fire fighter with state and Federal fire suppression agencies; meets or exceeds the minimum requirements for employment through basic interagency courses, (I-110, 130, 190, S-212). General use of power saws and crosscut saws including safety, maintenance, correct felling, limbing, and bucking techniques. This course stresses field performance and teamwork. Laboratory required.</p>	
Required Prerequisites or Co-Requisites ¹	
Advisories/Recommended Preparation ²	
<p>Course Objectives: <i>At the conclusion of this course, the student should be able to:</i></p> <ul style="list-style-type: none"> • Recite the factors that influence fire behavior and compare alternative actions and their influences on fire behavior. • Satisfactorily perform line construction techniques in the field in accordance with fire physics and fire behavior standards. • Safely use and maintain various tools and equipment for fire suppression, including chainsaws. • Distinguish between the fire standards and the "18" situations that shout, watch out", and correctly evaluate possible consequences of their violation in the context of fire behavior principles. • Demonstrate the use of hand tools, chain saws, and other firefighting equipment and the standard procedures to follow when operating around bulldozers, helicopters, and fixed wing aircraft. • Evaluate the I.C.S. organizational structure and chain-of-command in emergency situations, and relate to their role in overall context of wildland fire suppression. • Identify and evaluate situations which could lead to violations of State and Federal laws pertaining to sexual harassment and civil rights, and identify the consequences of such violations. • Identify and demonstrate the safe use of chain saws and related equipment as it concerns felling, limbing, and bucking operations. • Identify the basic components of power saws and perform trouble-shooting exercises to determine malfunctions. • Competently and safely use chain saws and crosscut saws through field performance examinations. 	
<p>Course Content:</p> <ol style="list-style-type: none"> 1. Introduction <ol style="list-style-type: none"> a. History b. Conduct of the course 2. Fire Physics <ol style="list-style-type: none"> a. Fire behavior b. Fuels c. Weather d. Topography 	
<p>Wildland Fire Technology (Content Continued)</p>	

¹ Prerequisite or co-requisite course need to be validated at the CCC level in accordance with Title 5 regulations; co-requisites for CCCs are the linked courses that must be taken at the same time as the primary or target course.

² Advisories or recommended preparation will not require validation but are recommendations to be considered by the student prior to enrolling.

3. Suppression
 - a. Fire line safety-fire shelters
 - b. Fire standards and 18 situations that shout watch out
 - c. Fire line construction and safety
 - d. Mop-up techniques and safety
4. Fire Tools
 - a. Tool and apparatus safety and maintenance
 - b. Chain saws and crosscut saws-safety, operation, techniques, and maintenance
5. Air Operations
 - a. Helicopter procedures and safety
 - b. Fixed wing aircraft procedures and safety
6. Regulations
 - a. I.C.S.
 - b. Chain of command
 - c. Sexual harassment
7. Field Skills
 - a. Field conduct
 - b. Woodsmanship
 - c. Field performance
 - d. Line construction
 - e. Power saws

Laboratory Activities: Individual Laboratory Activities are designed to support course objectives.

Methods of Evaluation: Lecture Comprehensive Quizzes and Exams Written Critical Thinking Scenarios Problem Analysis and Solution Research and Term Papers	Methods of Evaluation: Laboratory Laboratory Skill Validation by Observation Laboratory Reports Laboratory Research Projects and Reports Laboratory Skill Practicum Exams
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Typical Textbooks, Manuals, or Other Support Materials
Interagency Training Modules, USFS, I-110, 130, 190, S-212

Statewide Articulation: CPSLO-FNR 312, articulated to other universities as specific equivalent by individual community colleges, additional statewide course equivalency articulation currently underway, also currently transfers as lower division elective

FDRG Lead Signature: _____ Date: _____

Mark E. Bender, PhD CSU Stanislaus

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Internal Tracking Number

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