

Course Outline of Record

1. Course Code: NR-010
2.
 - a. Long Course Title: Wildland Fire Technology
 - b. Short Course Title: WILDLAND FIRE TECH
3.
 - a. Catalog Course Description:

This course is designed to provide students with a fundamental knowledge of the factors affecting wildland fire behavior, fire prevention and the wildland fire suppression techniques. Wildland fire behavior safety is presented throughout the course. (Equivalent to FIRE-010.)
 - b. Class Schedule Course Description:

This course is designed to provide students with a fundamental knowledge of the factors affecting wildland fire behavior, fire prevention and the wildland fire suppression techniques. Wildland fire behavior safety is presented throughout the course.
 - c. Semester Cycle (if applicable): n/a
 - d. Name of Approved Program(s):
 - NATURAL RESOURCES AS Degree for Employment Preparation
 - NATURAL RESOURCES AS Degree and Transfer Preparation
4. Total Units: 3.00 Total Semester Hrs: 54.00
 Lecture Units: 3 Semester Lecture Hrs: 54.00
 Lab Units: 0 Semester Lab Hrs: 0
 Class Size Maximum: 30 Allow Audit: No
 Repeatability No Repeats Allowed
 Justification 0
5. Prerequisite or Corequisite Courses or Advisories:

Course with requisite(s) and/or advisory is required to complete Content Review Matrix (CCForm1-A)

 Advisory: ENG 061
6. Textbooks, Required Reading or Software: (List in APA or MLA format.)
 - a. Henington, Brian (2015). Introduction to Wildland Firefighting Kendall Hunt Publishing Company. ISBN: 9781465274052
 College Level: Yes
 Flesch-Kincaid reading level: N/A
7. Entrance Skills: *Before entering the course students must be able:*
 - a.
Write organized summaries and responses to readings.
 - ENG 061 - Use theses to organize paragraphs into coherent analyses.
 - ENG 061 - Demonstrate the ability to think critically and express ideas using various patterns of development.
 - ENG 061 - Recognize features of style such as purpose, audience and tone integrate these elements into academic and professional writing.
 - ENG 061 - Demonstrate the ability to use research skills including library resources such as books, periodicals, electronic databases and online resources such as the internet.
 - ENG 061 - Demonstrate the ability to read and respond in writing beyond the literal interpretation of the text.
 - ENG 061 - Utilize a handbook to properly cite and document source material in MLA format.
8. Course Content and Scope:

Lecture:

1. Unit 1
 1. History of fire fighting
 2. Fire Physics: Fire behavior, fuels, weather, topography, prevention, education
2. Unit 2
 1. Suppression: Fireline safety, fire shelters, fire standards, 18 Watch Out situations
 2. Fireline construction and safety
 3. Mop-up techniques and safety
3. Unit 3
 1. Fire tools: tool and apparatus safety and maintenance, crosscut and chain saws
 2. Safety, operation, techniques and maintenance
4. Unit 4
 1. Air operations
 2. Helicopter procedures and safety
 3. Fixed wing aircraft procedures and safety
5. Unit 5
 1. Regulations
 2. ICS
 3. Chain of Command
 4. Sexual harassment
6. Unit 6
 1. Visit wildland fire stations and learn about conduct, field performance, hose lays and line construction
 2. Use of power equipment

Lab: *(if the "Lab Hours" is greater than zero this is required)*

9. Course Student Learning Outcomes:

1.
Discuss the causes of wildland firefighter injuries.
2.
Identify the firefighting assests used to control wildland fires.
3.
Recognize the weather factors that create extreme fire behavior.

10. Course Objectives: *Upon completion of this course, students will be able to:*

- a. Understand the factors that influence wildland fire behavior and compare alternative actions, including their influences on fire behavior.
- b. Distinguish between the fire standards and the "18" situations that shout, "Watch Out," and correctly evaluate possible consequences of their violation of fire behavior principles.
- c. Identify wildland hand tools, chain saws, and other firefighting equipment, along with the standard procedures to follow when operating around bulldozers, helicopters, and fixed wing aircraft.
- d. Evaluate the Incident Command system organizational structure and chain-of-command in emergency situations, and relate to their role in overall contest of wildland fire suppression.
- e. Identify and evaluate situations that might lead to violations of State and Federal laws pertaining to sexual harassment and civil rights, and identify the consequences of such violations.

11. Methods of Instruction: *(Integration: Elements should validate parallel course outline elements)*

- a. Discussion
- b. Lecture
- c. Participation
- d. Technology-based instruction

12. Assignments: *(List samples of specific activities/assignments students are expected to complete both in and outside of class.)*

In Class Hours: 54.00

Outside Class Hours: 108.00

a. In-class Assignments

1. Participation
2. Observation
3. Group discussion
4. Practice skills
5. Reading of handouts and student manual

b. Out-of-class Assignments

1. Reading textbook assignments
2. Reading assigned materials
3. Demonstrate field application of skills presented in class and exercises

13. Methods of Evaluating Student Progress: *The student will demonstrate proficiency by:*

- College level or pre-collegiate essays
 Essay assignments
- Written homework
- Term or research papers
- Reading reports
- Presentations/student demonstration observations
- True/false/multiple choice examinations
- Mid-term and final evaluations
- Student participation/contribution
- Oral and practical examination

14. Methods of Evaluating: Additional Assessment Information:

15. Need/Purpose/Rationale -- *All courses must meet one or more CCC missions.*

PO - Career and Technical Education

Fulfill the requirements for an entry- level position in their field.

Apply critical thinking skills to execute daily duties in their area of employment.

Apply critical thinking skills to research, evaluate, analyze, and synthesize information.

Display the skills and aptitude necessary to pass certification exams in their field.

Exhibit effective written, oral communication and interpersonal skills.

Transfer to a higher level learning institution

IO - Critical Thinking and Communication

Apply principles of logic to problem solve and reason with a fair and open mind.

16. Comparable Transfer Course

University System	Campus	Course Number	Course Title	Catalog Year
CSU	CSU Los Angeles		Wildland Fire Control	2013-14

17. Special Materials and/or Equipment Required of Students:

18. Materials Fees: Required Material?

Material or Item	Cost Per Unit	Total Cost
------------------	---------------	------------

19. Provide Reasons for the Substantial Modifications or New Course:

Periodic Review Update

- 20. a. Cross-Listed Course (Enter Course Code): FIRE-010
- b. Replacement Course (Enter original Course Code): N/A

21. Grading Method (choose one): Letter Grade Only

22. MIS Course Data Elements

- a. Course Control Number [CB00]: CCC000400624
- b. T.O.P. Code [CB03]: 11500.00 - Natural Resources
- c. Credit Status [CB04]: D - Credit - Degree Applicable
- d. Course Transfer Status [CB05]: B = Transfer CSU
- e. Basic Skills Status [CB08]: 2N = Not basic skills course
- f. Vocational Status [CB09]: Possibly Occupational
- g. Course Classification [CB11]: Y - Credit Course
- h. Special Class Status [CB13]: N - Not Special
- i. Course CAN Code [CB14]: N/A
- j. Course Prior to College Level [CB21]: Y = Not Applicable
- k. Course Noncredit Category [CB22]: Y - Not Applicable
- l. Funding Agency Category [CB23]: Y = Not Applicable
- m. Program Status [CB24]: 1 = Program Applicable

Name of Approved Program (if program-applicable): NATURAL RESOURCES,NATURAL RESOURCES
Attach listings of Degree and/or Certificate Programs showing this course as a required or a restricted elective.)

23. Enrollment - Estimate Enrollment

First Year: 0
Third Year: 0

24. Resources - Faculty - Discipline and Other Qualifications:

- a. Sufficient Faculty Resources: Yes
- b. If No, list number of FTE needed to offer this course: N/A

25. Additional Equipment and/or Supplies Needed and Source of Funding.

N/A

26. Additional Construction or Modification of Existing Classroom Space Needed. (Explain:)

N/A

27. FOR NEW OR SUBSTANTIALLY MODIFIED COURSES

Library and/or Learning Resources Present in the Collection are Sufficient to Meet the Need of the Students Enrolled in the Course: Yes

28. Originator Kurt Leuschner Origination Date 09/13/17