

CATALOG INFORMATION

Dept and Nbr: NRM 72                      Title: FIRE CNTROL/ITS USE  
Full Title: Forest Fire Control & Its Use  
Last Reviewed: 1/25/2021

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	3.00	Lecture Scheduled	3.00	17.5	Lecture Scheduled	52.50
Minimum	3.00	Lab Scheduled	0	17.5	Lab Scheduled	0
		Contact DHR	0		Contact DHR	0
		Contact Total	3.00		Contact Total	52.50
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 105.00

Total Student Learning Hours: 157.50

Title 5 Category: AA Degree Applicable  
Grading:                      Grade or P/NP  
Repeatability:            00 - Two Repeats if Grade was D, F, NC, or NP  
Also Listed As:  
Formerly:                      FOR 72

**Catalog Description:**  
Not open to students who have completed FIRE 66, Wildland Fire Control. How fire can be used in forestry.

**Prerequisites/Corequisites:**

**Recommended Preparation:**  
Eligibility for ENGL 100A or ENGL 100.

**Limits on Enrollment:**

**Schedule of Classes Information:**  
Description: Fire behavior, control & prevention. How fire can be used in Forestry. (Grade or P/NP)  
Prerequisites/Corequisites:  
Recommended: Eligibility for ENGL 100A or ENGL 100.  
Limits on Enrollment:  
Transfer Credit: CSU;  
Repeatability: Two Repeats if Grade was D, F, NC, or NP

## **ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:**

<b>AS Degree:</b>	<b>Area</b>	Effective:	Inactive:
<b>CSU GE:</b>	<b>Transfer Area</b>	Effective:	Inactive:
<b>IGETC:</b>	<b>Transfer Area</b>	Effective:	Inactive:

<b>CSU Transfer:</b>	Transferable	Effective:	Fall 1981	Inactive:
----------------------	--------------	------------	-----------	-----------

<b>UC Transfer:</b>		Effective:		Inactive:
---------------------	--	------------	--	-----------

**CID:**

**Certificate/Major Applicable:**

Certificate Applicable Course

## **COURSE CONTENT**

### **Outcomes and Objectives:**

#### **A. Weather**

1. Know how heating and cooling effects weather patterns and how air temperature is measured
2. Be able to measure moisture in the air
3. Know the cause of atmospheric stability
4. Understand how special wind conditions will change fire behavior
5. Know some of the causes of thunderstorms and their effect on fire behavior

#### **B. Fuel**

1. Know when fuel can speed up or slow down a forest fire

#### **C. Terrain**

1. Be able to explain why fires go uphill faster and the different effects of slope and exposure

#### **D. Fire Model**

1. Understand how fire can develop into a blowup fire

#### **E. Fire Control**

1. Know the types of equipment and when they should be used and the safe use of this equipment
2. Understand the basic fire organization
3. Know the different methods of attacking a forest fire
4. Know the ten standard fire fighting rules

#### **F. Fire Uses**

1. Know how fire can be used in silviculture practices to improve the forest and range lands

### **Topics and Scope:**

1. Introduction
2. Fire Presuppression
  - A. Organization

- B. Tools
- C. Equipment
- 3. Fire Behavior
  - A. Weather
    - 1. Basic Principles
    - 2. Temperature
    - 3. Atmospheric Moisture
    - 4. Atmospheric Stability
    - 5. Wind
    - 6. Thunderstorms
  - B. Fuel
  - C. Terrain
- 4. Safety
- 5. Fire Tactics
- 6. Fire Prevention
- 7. Fire Use

### Assignment:

"Wildfire Prevention and Control," by Harry P. Gaylor; Robert J. Brady Company

### Methods of Evaluation/Basis of Grade:

**Writing:** Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

Reading reports, Essay exams, Term papers

Writing  
30 - 30%

**Problem Solving:** Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Quizzes, Exams

Problem solving  
10 - 10%

**Skill Demonstrations:** All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

None

Skill Demonstrations  
0 - 0%

**Exams:** All forms of formal testing, other than skill performance exams.

Completion

Exams  
50 - 50%

**Other:** Includes any assessment tools that do not logically fit into the above categories.

None

Other Category  
0 - 0%

## **Representative Textbooks and Materials:**