



El Camino College
COURSE OUTLINE OF RECORD – Official

Subject:	FTEC
Course Number:	172
Descriptive Title:	Wildland Fire Operations
Division:	Health Sciences and Athletics
Department:	Fire and Emergency Technology
Course Disciplines:	Fire and Emergency Technology
Catalog Description:	This course provides students with information and presentations to understand basic wildland fire operations. This includes the Wildland Firefighting Size up Report, Briefing Checklist, and rules of engagement during fire operations. Fire Engines, Hotshot Crews, Helitak Crews, Bulldozers, Smokejumpers, Helicopters, and Air Tankers are all discussed along with strategies and tactics of each resource.
Prerequisite:	
Co-requisite:	
Recommended Preparation:	English C1000 or C1000H
Enrollment Limitation:	
Hours Lecture (per week):	3
Hours Laboratory (per week):	0
Outside Study Hours:	6
Total Course Hours:	54
Course Units:	3
Grading Method:	Letter Grade only
Credit Status:	Credit, degree applicable
Transfer CSU:	Yes
Effective Date:	
Transfer UC:	No
Effective Date:	
General Education ECC:	
Term:	
Other:	
CSU GE:	
Term:	
Other:	
IGETC:	
Term:	
Other:	

CalGETC:	
Term:	
Other:	
Student Learning Outcomes:	Upon completion of this course, students will be able to: 1. Describe offensive and defensive attack methods on a wildland fire. 2. Identify and differentiate between logistical and tactical aircraft missions for both rotor and fixed wing craft used during wildland fire suppression. 3. Explain fire crew organization and strategies and tactics associated with each during a wildland fire attack.
Course Objectives:	1. Explain the Incident Command System (ICS). 2. Describe the different positions of the ICS. 3. Describe various phases of an incident. 4. Describe the ICS criteria for typing ground and air resources. 5. Describe the various forms of the ICS. 6. Explain strategies and tactics used by ground and air resources. 7. Describe the safety procedures and protocols when operating in and around aircraft. 8. List the ten hazardous situations involving aircraft. 9. Describe the correct loading and unloading of cargo and personnel on aircraft. 10. Complete an incident action plan.
Major Topics:	I. Operational Leadership (Lecture, 6 Hours) A. Firefighter Communication Responsibilities B. Standard Firefighting Orders C. Watch Out Situations D. LCES E. Common Denominators of Fatality Fires II. Initial Attack (Lecture, 8 Hours) A. Preparations B. Safety C. Dispatch D. Arrival E. Fire Size up F. Initial Briefing

G. LCES

H. AAR

III. Extended Attack (Lecture, 8 Hours)

A. Sizeup Report

B. Briefing Checklist

C. Strategies and Tactics

D. Deployments

E. Logistics (Support/Service)

F. Planning

G. Incident Action Plan (IAP)

IV. Handcrews (Lecture 8 Hours)

A. Handcrew Operations

B. Handcrew Safety

C. Strategies and Tactics

D. Hotshots

E. Type II Handcrews

F. Type III Handcrews

V. Engine Crews (Lecture, 8 Hours)

A. Engine Crew Operations

B. Engine Crew Safety

C. Strategies and Tactics

D. Type I Engines

E. Type II Engines

F. Type III Engines

G. Type IV Engines

H. Type V Engines

	I. Type VI Engines J. Type VII Engines VI. Heavy Equipment (Lecture, 8 Hours) A. Heavy Equipment Operations B. Heavy Equipment Safety C. Bulldozers D. Plows E. Earth Movers F. Low Boys
Total Lecture Hours:	54
Total Laboratory Hours:	0
Total Hours:	54
A.1. Primary Methods of Evaluation (Part 1 - CCN courses only):	
Primary Method of Evaluation:	1) Substantial writing assignments
Typical Assignment Using Primary Method of Evaluation:	There are many positions on a wildfire incident, name them and describe their operational duties. Explain what aircraft apparatus is available on wildfire incidents and share the strengths and weaknesses of all.
Critical Thinking Assignment 1:	Utilizing the Incident Response Pocket Guide (IRPG), develop a written briefing using all the required components of the Firefighter Briefing Checklist.
Critical Thinking Assignment 2:	Facilitate an After Action Review (AAR) after completing your training scenario. Identify and describe all failures and successes and come up feedback in a written report to your supervisor regarding the tactical lessons learned.
Other Evaluation Methods:	Completion, Embedded Questions, Essay Exams, Homework Problems, Matching Items, Multiple Choice, Quizzes, Reading Reports, Term or Other Papers, True/False, Written Homework
If Other:	
Instructional Methods:	Discussion, Group Activities, Guest Speakers, Lecture, Multimedia presentations, Role play/simulation
If other:	
Work Outside of Class:	Answer questions, Required reading, Study
If Other:	
Up-To-Date Representative Texts:	Incident Response Pocket Guide (IRPG), United States Department of Agriculture (USDA) Forest Service (FS), National Wildfire Coordinating Group (NWCG) PMS 461, 2022.
Alternative Texts:	

Required Supplementary Readings:	
Other Required Materials:	
Requisite	
Category	
Requisite course:	
Requisite and Matching skill(s): Bold the requisite skill. List the corresponding course objective under each skill(s).	
Requisite Skill:	
Requisite Skill and Matching skill(s): Bold the requisite skill(s), if applicable	
Requisite course:	ENGL C1000 or C1000H
Requisite and Matching skill(s): Bold the requisite skill. List the corresponding course objective under each skill(s).	Reading and Composition ENGL C1000 - Demonstrate logical paragraph composition and sentence structure. The essay should have correct grammar, spelling, and word use.
Requisite Skill:	
Requisite Skill and Matching skill(s): Bold the requisite skill. List the corresponding course objective under each skill(s), if applicable	
Enrollment Limitations and Category:	
Enrollment Limitations Impact:	
Course Created by:	Ryan Carey
Date:	2/1/2025
Original Board Approval Date:	11/18/2025
Effective Term:	FA 2026