

College of the Siskiyous

Program Outline Report

Program Basics

Program Title:	Fire Technology - COA
Program Status:	In development
Department:	FIRE
Award Type:	Certificate of Achievement (Credit)
Program Description	Students successfully completing the following course work will be eligible for the Fire Technology Certificate of Achievement. To obtain the Certificate in Fire Technology, students must complete the following requirements: FIRE 1001 - Fire Protection Organization (3), FIRE 1002 - Fire Prevention Technology (3), FIRE 1003 - Fire Protection Equipment & Systems (3), FIRE 1004 - Building Construction for Fire Protection (3), FIRE 1005 - Fire Behavior and Combustion (3), FIRE 1006 - Fire and Emergency Services Safety and Survival (3). Students must receive a 70% for all coursework.
Control Number:	No value
Credential ID:	No value
Transferability:	Not transferable
Program TOP Code (SP01) :	2133.00
Program TOP Code (SP01) :	Fire Technology
Program CIP Code:	(43.0201) Fire Prevention and Safety Technology/Technician.
Student Program Award (SP02) :	Certificate requiring 18 or more semester units
Maximum Credits:	18
Minimum Credits:	18
Curriculum Committee Approval Date:	12/09/2025
Board of Trustees Approval Date:	No value
External Review Approval Date:	No value

Proposal Details

Proposal Start:	Fall 2026
Rationale for Non-Fall Start:	No value
Notes for Submission:	Implement Certificate of Achievement for completion of Fire Technology Core Courses.

Submission Rationale

- Additional Program Options
- Improvement to Program of Study
- New Program

Program Requirements

Fire Technology--COA Requirements (Total 18) (Total 18)

Complete all of the following

FIRE1001 - Fire Protection Organization	3
FIRE1002 - Fire Prevention Technology	3
FIRE1003 - Fire Protection Equipment & Systems	3
FIRE1004 - Building Construction for Fire Protection	3
FIRE1005 - Fire Behavior and Combustion	3
FIRE1006 - Fire and Emergency Services Safety and Survival	3

Recommended Sequences

Option 2

Term 1 (Total 3)

Fire Technology--COA Requirements (Total 18) (Total 3)

Take one of the following

FIRE1004 - Building Construction for Fire Protection	3
FIRE1005 - Fire Behavior and Combustion	3
FIRE1006 - Fire and Emergency Services Safety and Survival	3

Term 2 (Total 3)

Fire Technology--COA Requirements (Total 18) (Total 3)

Take one of the following

FIRE1001 - Fire Protection Organization	3
FIRE1002 - Fire Prevention Technology	3
FIRE1003 - Fire Protection Equipment & Systems	3

Option 1

Term 1 (Total 3)

Fire Technology--COA Requirements (Total 18) (Total 3)

Take one of the following

FIRE1001 - Fire Protection Organization	3
FIRE1002 - Fire Prevention Technology	3
FIRE1003 - Fire Protection Equipment & Systems	3

Term 2 (Total 3)

Fire Technology--COA Requirements (Total 18) (Total 3)

Take one of the following

FIRE1004 - Building Construction for Fire Protection	3
FIRE1005 - Fire Behavior and Combustion	3
FIRE1006 - Fire and Emergency Services Safety and Survival	3

Program Outcomes

Fire Technology - COA

PSLO	Performance
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Analyze physical conditions which determine states of matter and influence fire behavior.	70
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Describe fire protection systems in various structures and the history of sprinkler ordinances and legislation.	70
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Describe the educational requirements, duties, and information sources for various occupations in fire protection.	70
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Explain the importance of investigating all near-misses, injuries, and fatalities and how might these be reduced by adopting standardized policies for emergency responders.	70
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Identify and describe major types of building construction.	70
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Identify and describe the national fire problem including causes, damages, and public and firefighter fatalities.	70
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Program Narrative

(For New AND Revised Programs) Program Goals and Objectives - must address a valid workforce preparation purpose and, if applicable, address transfer preparation.

The Fire Technology Certificate of Completion is designed to recognize students for completion of the six (6) Fire Technology Core Classes. The Fire Technology Certificate of Completion will assist students with entry-level employment and advancement opportunities in the fire service and related emergency response fields. The certification provides students with foundational knowledge of fire protection systems, fire prevention, building construction, fire behavior, safety, survival, and emphasizing professional standards. This structure shows workforce alignment (entry-level firefighter, fire prevention officer, fire inspector roles) while also covering academic transfer preparation for students moving into Fire Technology or Fire Administration professional degree programs.

Master Planning - please describe how the program fits in the mission, curriculum, and master planning of the college and higher education in California.

This program strengthens the Fire Technology discipline by offering a clear credential that validates student achievement, enhances employability, and supports pathways into associate degrees, California State Fire Training certifications, and eventual transfer into four-year Fire Technology or Fire Administration programs. The Fire Technology Completion Certificate contributes to the College of the Siskiyous' strategic goals of student success, workforce alignment, and community partnership while supporting the broader objectives of California higher education to provide both workforce training and academic transfer opportunities.

Enrollment and Completer Projections - please provide the projection of number of students to enroll and earn a degree annually.

Firefighter employment in the United States is projected to grow with a large replacement demand and expansion. California agencies continue active recruitment and are expanding staffing, citing thousands of additional hires over the next ten years. With active recruitment and current enrollment data, a projection of 15 students/year will complete a COA in Fire Technology.

Place of Program in Curriculum/Similar Programs - please explain how the program fits in college's existing program inventory.

The Fire Technology Completion Certificate leverages and organizes courses that are already part of the College of the Siskiyous' established Fire Technology curriculum. The courses required for the certificate—Fire Protection Organization, Fire Prevention, Fire Protection Systems, Building Construction, Fire Behavior, and Fire Safety & Survival—are all currently offered and form the academic foundation of the Fire Technology discipline. Completion will ensure students demonstrate knowledge and understanding of the fire service industry and prepares students for the Fire Academy.

Similar Programs at Other Colleges in Service Area - please provide justification of need for the program in the region.

As a rural-serving institution, College of the Siskiyous provides one of the few local avenues for students to access structured fire science education without leaving the area. The certificate identifies completion of an affordable, accessible entry point into fire service careers, especially for first-generation, underrepresented, and nontraditional students.

This program also provides a CTE Pathway for Dual-Enrolled local High School Students to target a Certificate as they enroll in college-level courses. By earning college credit while still in high school, students can begin working toward the certificate requirements early, giving them a clear and achievable goal that validates their progress.

Transfer Preparation Information - please provide transfer preparation information if it is a component of the program.

The knowledge and skills gained through this certificate align with the lower-division requirements for transfer into California State University (CSU) Fire Technology, Fire Administration, and Emergency Services programs. Students who complete the certificate will be better prepared for advanced coursework in: Fire Service Management and Leadership, Emergency Planning and Disaster Response, Public Safety Administration, and Community Risk Reduction. The Fire Technology Completion Certificate not only prepares students for immediate entry into fire service careers, but also supports those pursuing long-term educational and professional advancement through transfer to CSU or other four-year institutions.

Please confirm that you have submitted Current Labor Market Information (LMI) and Analysis, Advisory Committee Recommendations, and Regional Consortia meeting minutes to the Curriculum Specialist upon submission of the program.

- Yes, I provided the following items to the Curriculum Specialist.