

CATALOG INFORMATION

Dept and Nbr: FIRE 204

Title: FIRE INVESTIGATE 1

Full Title: Fire Investigation I

Last Reviewed: 4/21/1997

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	2.00	Lecture Scheduled	40.00	10	Lecture Scheduled	400.00
Minimum	2.00	Lab Scheduled	0	1	Lab Scheduled	0
		Contact DHR	0		Contact DHR	0
		Contact Total	40.00		Contact Total	400.00
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 800.00

Total Student Learning Hours: 1200.00

Title 5 Category: AA Degree Applicable

Grading: P/NP Only

Repeatability: 00 - Two Repeats if Grade was D, F, NC, or NP

Also Listed As:

Formerly:

Catalog Description:

Review of the effects of fire behavior and building construction on cause and origin determination; investigating incendiary and accidental fires; collecting, preserving, and documenting evidence.

Prerequisites/Corequisites:

Recommended Preparation:

Eligibility for English 100A or equivalent plus completion of Fire Technology 61 or equivalent.

Limits on Enrollment:

Schedule of Classes Information:

Description: Review of the effects of fire behavior & building construction on cause & origin determination; investigating incendiary & accidental fire; collecting, preserving & documenting evidence. (P/NP Only)

Prerequisites/Corequisites:

Recommended: Eligibility for English 100A or equivalent plus completion of Fire Technology 61 or equivalent.

Limits on Enrollment:

Transfer Credit:

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:
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<b>CSU Transfer:</b>	Effective:	Inactive:
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<b>UC Transfer:</b>	Effective:	Inactive:
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**CID:**

**Certificate/Major Applicable:**

Certificate Applicable Course

## **COURSE CONTENT**

### **Outcomes and Objectives:**

The students will:

1. Provide information on fire behavior factors.
2. Provide information on fire scene indicators.
3. Provide information regarding fire scene search.
4. Discuss fire causes and explosion cases for investigation.
5. Discuss the legal parameters of arson law.
6. Provide information on documentation of findings.

### **Topics and Scope:**

1. Introduction to Fire Investigation
  - a. Factors affecting the National arson problem.
  - b. Fire investigation responsibilities.
  - c. Conduct of investigator.
  - d. Fire cause and origin specialists vs arson investigator.
  - e. Glossary of terms.
2. Fire Behavior
3. Building Construction
4. Point of Origin Determination
5. Motives of the Firesetter
6. Accidental Ignition Sources
7. Incendiary Fire Indicators
8. Structure Fire Investigation
9. Vehicle Fire Investigation
10. Fire Fatalities - An Overview
11. Investigation Tools and Documentation
12. Techniques - Photography
13. Investigation Tools and Documentation

14. Techniques - Sketching
15. Report Writing
16. Evidence Recognition, Documentation, and Preservation
17. Legal Aspects of Fire Investigation
18. Explosives and Incendiary Devices
19. Juvenile Firesetters
20. Wildland Fire Investigation

### Assignment:

The student will:

1. Identify factors affecting the national arson problems.
2. Analyze and identify Fire Investigation responsibilities.

### 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.

None

Writing  
0 - 0%

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

Quizzes, Exams

Problem solving  
0 - 10%

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

Class performances

Skill Demonstrations  
0 - 10%

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

Multiple choice

Exams  
0 - 70%

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

None

Other Category  
0 - 0%

### Representative Textbooks and Materials:

FIRE INVESTIGATION 1-A MANUAL by CFSTES, State Fire Marshall's Office.