

CATALOG INFORMATION

Dept and Nbr: FIRE 73

Title: FIRE PREV TECH

Full Title: Fire Prevention Technology

Last Reviewed: 1/22/2018

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 Only

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

Also Listed As:

Formerly: FIRE 52

**Catalog Description:**  
Provides fundamental information regarding the history and philosophy of fire prevention, organization and operation of a fire prevention bureau, use of fire codes, identification and correction of fire hazards, and the relationship of fire prevention with fire safety education and detection and suppression systems.

**Prerequisites/Corequisites:**

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

**Limits on Enrollment:**

**Schedule of Classes Information:**  
Description: State Core Course. Organization & function of fire prevention. (Grade Only)  
Prerequisites/Corequisites:  
Recommended: Eligibility for ENGL 100 or ESL 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>			<b>Effective:</b>	<b>Inactive:</b>
<b>CSU GE:</b>	<b>Transfer Area</b>			<b>Effective:</b>	<b>Inactive:</b>
<b>IGETC:</b>	<b>Transfer Area</b>			<b>Effective:</b>	<b>Inactive:</b>
<b>CSU Transfer:</b>	Transferable	<b>Effective:</b>	Spring 1989	<b>Inactive:</b>	
<b>UC Transfer:</b>		<b>Effective:</b>		<b>Inactive:</b>	

**CID:**

**Certificate/Major Applicable:**

Certificate Applicable Course

## **COURSE CONTENT**

### **Outcomes and Objectives:**

**COURSE GOALS:** To encourage and enable the students to:

1. appreciate the purpose of fire prevention and the codes and laws that authorize its existence.
2. develop an understanding of how a fire prevention bureau functions.
3. develop an increased awareness of fire hazards and methods of correcting these hazards.
4. understand built-in fire protection features as they relate to fire prevention.

**COURSE OBJECTIVES:** At the end of the course the student will demonstrate the ability to:

1. describe the origin and history of fire prevention efforts in the United States.
2. list and identify the basic fire prevention functions of a fire department.
3. identify the responsibility and authority for fire prevention inspections and related activities.
4. explain and identify principles and procedures used to correct fire hazards.
5. identify occupancies and building construction types.
6. identify hazards of use, storage, and transfer of flammable liquids, gases, and other hazardous materials.
7. explain basic exiting requirements.
8. identify basic electrical fire hazards.
9. list operational deficiencies in sprinkler systems and special fixed fire protection systems.
10. list operational deficiencies of standpipe systems.
11. list operational deficiencies of detection and alarm systems.
12. identify principles of placement, operation, and inspection of portable fire extinguishers.

13. describe basic principles of fire cause determination as they relate to fire prevention and fire investigation.
14. identify the plan review function of a fire prevention bureau.
15. identify the relationship between fire safety education and fire prevention.
16. identify the importance of report preparation and records management in fire prevention efforts.

### **Topics and Scope:**

1. History and development of fire prevention.
  2. Fire prevention organizations.
  3. Organization of a fire prevention bureau.
  4. Building codes and fire prevention.
  5. Fire codes and fire prevention.
  6. Structural elements.
  7. Inspections procedures.
  8. Identification of hazards.
  9. Abatement and mitigation of hazards.
  10. Fire investigation.
  11. Public fire safety education.
  12. Plan review.
  13. Report preparation and record keeping.
- A MORE DETAILED OUTLINE AVAILABLE IN THE AJ DEPT.

### **Assignment:**

The student will:

1. define the principal functions of a fire prevention bureau.
2. analyze the relationship between fire prevention efforts and the resulting reduction of life and property loss.
3. describe, in writing, the major types of fire hazards that could be found on a thorough commercial fire inspection.
4. describe, in writing, the basic hazard correction process used by the modern fire prevention bureau; given a simulated exercise the student will analyze and determine which codes would be used and how they would be applied.

### **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.

Written homework, Term papers
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Writing 10 - 20%
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**Problem Solving:** Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Homework problems, Quizzes, Exams
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Problem solving 5 - 10%
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**Skill Demonstrations:** All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

Class performances

Skill Demonstrations  
5 - 10%

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

Multiple choice, Completion

Exams  
25 - 80%

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

None

Other Category  
0 - 0%

**Representative Textbooks and Materials:**

Recommended required text:

Diamantes, Fire Prevention, Delmar Thomson, 2nd edition, 2003.