

SAFE-2580 FIRE PREVENTION AND PROTECTION 2

CREDITS SYLLABUS

CATALOG DESCRIPTION

Examine measures directed toward avoiding the inception of fire, among which are; fire prevention education, fire safety inspection, fire codes, and investigating of fire to determine causes. Provides an overview of fire protection and fire loss analysis. Fire dynamics, prevention and control and fire suppression and detection are introduced and discussed.

Prerequisites:

Semester Offered: All

COMMON STUDENT LEARNING OUTCOMES

Upon successful completion of San Juan College programs and degrees, the student will demonstrate competency in...

BROAD AND SPECIALIZED LEARNING

Students will actively and independently acquire, apply, and adapt skills and knowledge with an awareness of global contexts.

CRITICAL THINKING

Students will think analytically and creatively to explore ideas, make connections, draw conclusions and solve problems.

CULTURAL AND CIVIC ENGAGEMENT

Students will act purposefully, reflectively, and ethically in diverse and complex environments.

EFFECTIVE COMMUNICATION

Students will exchange ideas and information with clarity in multiple contexts.

INFORMATION LITERACY

Students will be able to recognize when information is needed and have the ability to locate, evaluate, and use it effectively.

INTEGRATING TECHNOLOGIES

Students will demonstrate fluency in the application and use of technologies in multiple contexts.

Student work from this class may be randomly selected and used anonymously for assessment of course, program, and/or institutional learning outcomes. For more information, please refer to the Dean of the appropriate School.

COURSE LEARNING OUTCOMES

Upon successful completion of the course, the student will be able to...

1. Examine the development and enactment of fire codes and the effect on fire prevention programs

2. Analyze fire prevention and control and describe the basic of fire dynamics
3. Assess fire suppression and detection systems
4. Understand the rules and regulations of the Uniform Fire Code and the regulatory issues that affect fire prevention and protection
5. Describe the differences between OSHA and NFPA standards
6. Describe the Elements of Life Safety and the distinct parts of means of egress
7. Understand the phenomena that encompass fire dynamics, devastation produced and the investigation elements of determining cause of fire
8. Identify the key elements of a fire-loss prevention and control programs
9. Identify the various types of portable fire extinguishers and the classes of fire
10. Explain ignition sources, flammables and combustibles, and flammable liquids safety
11. Describe the various fire detection methods, special hazard extinguishing agents and their use
12. Restate the technical and practical concepts of cost-benefit analysis on fire protection options and the basic function of risk management
13. Explain procedures for testing of sprinkler systems, safeguarding for storing flammable gas and liquids, and components of public water supply testing
14. State the importance of fire prevention and fire protection in the industrial and commercial settings