

**J. Sargeant Reynolds Community College
Course Content Summary**

Course Prefix and Number: FST 215

Credits: 3

Course Title: Fire Protection Systems

Course Description: Provides information relating to the features of design and operation of fire detection and alarm systems, heat and smoke control systems, special protection and sprinkler systems, water supply for fire protection, and portable fire extinguishers. (Usually offered in the spring semester.) Lecture 3 hours per week.

General Course Purpose:

Course Prerequisites and Co-requisites:

None

Student Learning Outcomes:

Upon completing the course, the student will be able to

- a. Articulate knowledge of distribution and installation of water supply systems in suburban and rural areas;
- b. Comprehend types, components, and operation of automatic, special sprinkler systems and standpipes;
- c. Classify detection, alarm, supervisory devices, heat, flame, smoke control devices, and hardware;
- d. Identify and describe appropriate national standards governing the installation, inspection, and maintenance of given extinguishing agent/systems and their related components; and
- e. Identify and analyze the causes involved in the line of duty firefighter deaths related to structural and wild land firefighting, training, research, and the reduction of emergency risks and accidents.

Major Topics to Be Included:

- a. Distribution and installation of water supply systems in suburban and rural areas
- b. Sprinkler systems and standpipes
- c. Classification of detection, alarm, supervisory devices, heat, flame, smoke control devices, and hardware
- d. National standards governing the installation, inspection, and maintenance of given extinguishing agent/systems and their related components
- e. Causes involved in the line of duty firefighter deaths related to structural and wild land firefighting, training, research, and the reduction of emergency risks and accidents

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