

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

**Course Prefix and Number:** FST 245

**Credits:** 3

**Course Title:** Fire and Risk Analysis

**Course Description:** Presents a study of current urban fire problems with emphasis on solutions based upon current available technology. Includes master planning, as well as methods of identifying, analyzing, and measuring accompanying risk and loss possibilities. (Usually offered in the spring semester.) Prerequisite: FST 240 or permission of program head. Lecture 3 hours per week.

**General Course Purpose:**

**Course Prerequisites and Co-requisites:**

Prerequisite: FST 240 or permission of program head

**Student Learning Outcomes:**

Upon completing the course, the student will be able to

- a. Identify fire risks in the community;
- b. Develop a plan to determine community fire risks and collect and analyze fire risk data;
- c. Develop a proposal to reduce or remove risks or potential loss;
- d. Conduct a community fire and risk analysis;
- e. Develop solutions and alternatives and conduct evaluation of solution alternatives;  
and
- f. Present oral and written reports on analysis.

**Major Topics to Be Included:**

- a. Fire risk and fire scenario
- b. Fire risk management
- c. Information management and data collection
- d. Needs assessment
- e. Statistical measurements, analysis, and presentation
- f. Measuring effectiveness
- g. Planning
- h. Developing and evaluating alternative solutions

**Date Created/Updated (Month, Day, Year):** March 12, 2019