

## Master Syllabus

### FST 2204 - Fire Protection Systems

**Division:** Business and Public Services

**Department:** Fire Science Technology

**Credit Hour Total:** 5.0

**Lecture Hrs:** 3.0 **Lab Hrs:** 4.0

**Date Revised:** October 2012

---

#### Course Description:

Provides information on the design, installation, maintenance and common problems associated with fire alarms, water-based and special hazards fire protection systems and portable fire extinguishers. Three classroom, four lab hours per week.

#### General Education Outcomes:

- Critical Thinking/Problem Solving Competency
- Oral Communication Competency
- Computer Literacy Competency

#### Course Outcomes:

##### Benefits of Systems

Recall the benefits of various fire protection systems.

**Assessment Method:** Locally developed exams

**Performance Criteria:** Correctly answer at least 70% of exam questions

##### Alarm Systems

Discuss the various types, uses, and problems associated with fire alarm systems.

**Assessment Method:** Locally developed exams

**Performance Criteria:** Correctly answer at least 70% of exam questions

##### Fire Protection Systems

Articulate characteristics of properly designed, installed, and maintained water-based, special hazard and detection, fire protection systems.

**Assessment Method:** Simulations

**Performance Criteria:** Correctly identify, resolve and then describe the problem(s) in the laboratory setting with at least 70% accuracy.

##### Fire Protection Design Problems

Design, build and utilize an Excel program to solve various fire protection design problems.

**Assessment Method:** Simulations

**Performance Criteria:** Design, build and utilize with 70% accuracy Excel programs to solve various fire protection design problems.

#### Outline:

Fire alarm systems  
Water-based fire suppression systems  
Special hazards fire suppression systems and extinguishing agents  
Fire detection and notification appliances  
Portable fire extinguishers  
Excel use in solving design problems