Sinclair Community College
444 E. Third St.
Dayton, OH 45402

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
- Oral Communication
- Computer Literacy

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