

**FIRE PROTECTION****\*FRS 101****Fire Prevention and Protection (3)**

Methods, policies and procedures relative to establishing and operating appropriate fire prevention and protection programs.

**3 Class Hours**

**\*FRS 103****Fire Fighting Tactics and Strategy (3)**

Focus on pre-planning and the development of fire fighting tactics appropriate for a wide variety of hazards. Review of basic information and some local conditions. The case study method is used to develop plans and tactics relating to the student's own department.

**3 Class Hours**

**\*FRS 105****Arson Investigation (3)**

Fire investigations and arson. Responsibilities of the arson investigator, tools of the investigator, photography, electronic devices, laws pertaining to arson, motives and tools of the arsonist, courtroom procedures. A field experience will be included.

**3 Class Hours**

**\*FRS 107****Legal Aspects of the Fire Service (3)**

Laws and regulations as they pertain to the fire service and its personnel. Legal terminology necessary for the interpretation of pertinent laws and decisions. Legal status of the fire fighter, as well as fire fighter's rights, duties and liabilities. Responsibilities and powers of the service in enforcement of ordinances and codes.

**3 Class Hours; Writing Emphasis Course.**

**\*FRS 108****Building Construction for Fire Science (3)**

Fire fighters are confronted with many unknown factors at the fire ground. Among these is the unknown structural stability of the buildings they must enter. Basic principles of building construction and design with emphasis focused on fire protection concerns. Building materials included.

**3 Class Hours**

**\*FRS 110****Computers in the Fire Service (3)**

Introductory concepts of micro-computer use in Fire Science settings. Software packages, hardware and software purchasing relating to Fire Service usage, word processing, data base management and spreadsheet application to student generated problems.

**3 Class Hours**

**\*FRS 200****Hazardous Materials (3)**

Chemicals and chemical processes most closely involved in fire protection and fire fighting. Use, storage, transportation and disposal of hazardous materials with emphasis on flammable liquids, flammable solids, oxidizing materials, corrosive liquids, compressed gases. A writing emphasis "W" course.

**3 Class Hours**

**\*FRS 201****Fire Service Hydraulics (3)**

Application of the laws of mathematics and physics to properties of fluid states, force pressure and flow velocities. Emphasis on applying principles of hydraulics to fire fighting problems.

**3 Class Hours; Prerequisite: MAT 092 or equivalent.**

**FRS 204****Protection and Suppression Systems (3)**

Design, installation, operation, and trouble shooting of various systems. Extinguishers, alarms, sprinkler systems, chemical approaches, and Halon systems. Projects and field trip included.

**3 Class Hours**

**\*FRS 205****Fire Department Administration (3)**

Organization of the fire departments with emphasis on personnel management, distribution of equipment, maintenance of records, communications, data collection and community relations. ISO Grading Schedule.

**3 Class Hours**

**\*FRS 250****Special Topics (1-3)**

Exploration of special topics in Fire Protection Technology. May be repeated since topics will vary from semester to semester. Special topics have included The Psychology of the Firesetter and Code Enforcement.

**\*FRS 299****Independent Study: Fire Service (1-3)**

An individual student project in an area of fire protection or service beyond the scope of regular coursework. Conducted under supervision of coordinator and approved by department chairperson and Dean.

**Prerequisite: 6 Credits in FRS coursework and 6 Credits in General Education courses.**