

---

## FIRE FIGHTING & PROTECTION

### **FFP 0030, Firefighter 1 Firefighter 1**

**13 hrs., 6.4 crs.,**

\$33.00 lab fee. Prerequisite: Meet the State of Florida qualifications as defined in State Statute 633.412 Firefighters; qualifications for certification and Gulf Coast State College qualification pertaining to the fire science technology limited access program. This course introduces the student to the skills and techniques used in firefighting. Classroom instruction includes a variety of fire related topics. Practical exercises and scenarios are included to enhance classroom instruction and skill development. Those who complete the course receive a state competency certificate as a volunteer firefighter upon successful completion of all Florida Bureau of Fire Standards and Training requirements.

### **FFP 0031, Firefighter 2 Firefighter 2**

**20 hrs., 10 crs.,**

\$48.00 lab fee. Prerequisites: Meet the State of Florida qualifications as defined in State Statute 633.412 Firefighters; qualifications for certification and Gulf Coast State College qualification pertaining to the fire science technology limited access program. This is a continuation course after Firefighter 1 and prepares the student for employment as a Florida certified firefighter. This course builds upon the skills and knowledge attained in Firefighter 1 and prepares students for mastery of the basic competencies required. After course completion, the student is eligible to take the certification examination given by the Florida Bureau of Fire Standards and Training.

### **FFP 0069, Firefighter Minimum Standards Capstone Firefighter Minimum Standards Capstone**

**1.5 hrs., 1.5 crs.,**

\$24.00 lab fee. Prerequisites: FFP0010, FFP0020, and FFP1140. This course is designed to provide a comprehensive review of the subjects taught in the program prior to the State of Florida Firefighter Certification Examination. (Limited access: requires admission to the academy or special permission of the chair of Public Safety.)

### **FFP 1140, First Responder to Medical Emergencies First Responder to Medical Emergencies**

**3 hrs., 3 crs.,**

\$7.00 lab fee. This course introduces the student to the skills and techniques used for first responder to medical emergencies. Classroom instruction includes a variety of medical related topics encountered by firefighters. Practical exercises and scenarios are included to enhance classroom instruction and skill development. After completion, the student is eligible to continue with Firefighter I certification. (Limited access; requires permission of fire science coordinator.)

### **FFP 1301, Fire Stream Hydraulics Fire Stream Hydraulics**

**3 hrs., 3 crs.,**

A study of pertinent properties of water, distribution of pressures in dynamic and static systems, friction loss in hoses and pipes, and factors which influence it. Approximation methods for quick calculation are given, as well as the most technical computations. Effort is directed toward giving an understanding of how good fire streams are developed.

### **FFP 1302, Fire Apparatus Operation Fire Apparatus Operation**

**3 hrs., 3 crs.,**

\$23.00 lab fee. Prerequisite: FFP1301 or approval of instructor. The curriculum covers the laws, rules, and driving techniques for emergency vehicles, as well as a review of fire service hydraulics. Fire ground evolutions and a driving course make up the practical part of the course. The evolution portion of the course includes the use of pre-connected lines, tandem pumping, drafting, relays, and master streams. The student should have a basic understanding of fire stream hydraulics prior to entering this course. Students must bring gloves and proper attire for water pumping exercises.

### **FFP 1505, Fire Prevention Practices Fire Prevention Practices**

**3 hrs., 3 crs.,**

Prerequisite: Basic fire science knowledge. Principles of prevention and investigation; fire hazards of various occupancies; fire codes; OSHA requirements for fire protection; surveying and mapping procedures; recognition of fire hazards; engineering a solution of the hazards; enforcement of the solution; public relations as affected by fire prevention and presentation of arson evidence.

---

**FFP 1510, Building and Fire Codes Building and Fire Codes****3 hrs., 3 crs.,**

Comparison of national, state, and local building and fire codes emphasizing local laws and ordinances pertaining to building construction and design.

**FFP 1540, Fire Protections and Devices Fire Protections and Devices****3 hrs., 3 crs.,**

A study of fixed and portable systems for detecting, reporting, and extinguishing fires. Comparison is made between the value of detection and the value of automatic extinguishing systems. Study is made of the factors which influence the choice of one of several systems for a given occupancy and the value of each type system. Restoration after use and routine maintenance are stressed.

**FFP 1610, Fire Cause and Arson Detection Fire Cause and Arson Detection****3 hrs., 3 crs.,**

Investigation of fires for determination of the source of ignition and first fuel, point of origin, direction and rate of spread, and whether the cause was accidental or illegal. Florida arson laws are studied along with procedures for ensuring the admissibility of any evidence found at the scene of the fires, including methods of questioning the witnesses, interviewing, interrogation, and case preparation with stress on recognition of cause and evidence.

**FFP 1702, Fundamentals of Fire and Emergency Services Fundamentals of Fire and Emergency Services****3 hrs., 3 crs.,**

This course introduces the student to the firefighting profession and reinforces the need for continuous learning for career firefighters. Classroom instruction includes a variety of fire related topics about the firefighting profession. Practical exercises and scenarios are included to enhance classroom instruction and to utilize real world examples.

**FFP 1741, Fire Service Course Design Fire Service Course Design****3 hrs., 3 crs.,**

Prerequisites: Certified fire fighter and basic fire science knowledge. Emphasizes techniques that help a fire service instructor develop skills in curriculum development.

**FFP 2111, Fire Chemistry Fire Chemistry****3 hrs., 3 crs.,**

Prerequisite: Basic fire science or law enforcement knowledge. This course is designed to show the arson investigator the different forms of matter and energy, common substances, and how they relate to fires. The chemical formulas of flammable and combustible substances, their bondings and separations, as well as the different chemical reactions related to fire and oxidation are covered. Particular emphasis is placed on the specific substance used by arsonists to ignite and accelerate burnings. NOTE: Part of HazMat Tech, Fire Investigator I, Fire Inspector II, and Fire Officer II.

**FFP 2120, Building Construction for the Fire Service Building Construction for the Fire Service****3 hrs., 3 crs.,**

Prerequisite: Work experience as paid or volunteer firefighter. The study of problems of building fires; structural fire elements; fire resistance; surface finishes; fire spread by windows, air conditioning, building elements, and nonstructural elements.

**FFP 2521, Blueprint Reading and Plans Examination Blueprint Reading and Plans Examination****3 hrs., 3 crs.,**

Preparation course of study for exam in blueprint reading and plans.

**FFP 2700, Fire Department Administration, Management, Supervision Fire Department Administration, Management, Supervision****3 hrs., 3 crs.,**

Administrative, managerial, and supervisory principles that apply to the fire science. Intended for those seeking to participate in upper-level organizational activity such as budgeting, cost controls, goal-setting, manpower acquisition and distribution, and for those seeking to supervise fire company personnel with emphasis on leadership traits, training, planning, and company officer responsibilities.

---

---

**FFP 2706, Public Information Officer Public Information Officer****3 hrs., 3 crs.,**

A study of what public relations is and how a fire department can utilize positive public relations to benefit the organization and the public. This course describes the functions of a public relations officer along with the responsibilities the position holds.

**FFP 2720, Company Officer Company Officer****3 hrs., 3 crs.,**

Broad concepts of supervision and leadership; analysis of the kinds of effective leadership needed in the fire sciences; supervising in high stress conditions; use of case studies and individual goal-setting.

**FFP 2740, Fire Science Instructor Techniques Fire Science Instructor Techniques****3 hrs., 3 crs.,**

Principles, procedures, and techniques of teaching with emphasis on methods of instruction, developing training outlines, use of visual aids, and testing procedures of fire science instructors.

**FFP 2770, Ethical and Legal Issues for the Fire Service Ethical and Legal Issues for the Fire Service****3 hrs., 3 crs.,**

Prerequisite: Basic fire science knowledge. A study of the entire spectrum of issues facing today's fire service leaders. Topics include: labor relations, human rights and diversity; conflicts of interest, and making frameworks for ethical decision making.

**FFP 2810, Firefighting Strategy and Tactics Firefighting Strategy and Tactics****3 hrs., 3 crs.,**

A study of multiple company operations, logistics, strategy, use of mutual aid forces, and conflagration control. Intended for high-ranking officers who may be in command of major fires and other emergencies involving close coordination and maximum use of large amounts of manpower and equipment. Typical tactical situations and case histories will be given.

**FFP 2811, Firefighting Strategy and Tactics II Firefighting Strategy and Tactics II****3 hrs., 3 crs.,**

Prerequisites: Certified fire fighter, basic fire science knowledge, and FFP1810 or FFP2810. A study of action plans, command and control, safety, building dynamics, sprinkler operations, fire company operations, and various types of fires. An advanced study intended for higher ranking officers using state or locally provided scenarios.

**FFP 2949, COOP/Work Experience/Fire Science COOP/Work Experience/Fire Science****1 hr., 1 cr.,**

1-3 crs. Cooperative Education courses may be taken toward completion of most of the Associate in Arts and Associate in Science degree programs. A maximum of six credit hours may be used in meeting the A.A. degree requirements. Prerequisite: Minimum of 2.0 GPA, meet with the co-op coordinator, and availability of co-op work experience slot. Supervised, practical work experience that seeks to combine theories and apply practical skills to projects in the student's major field of study. Requirements include online weekly, mid-term, and end-of-term reflection assignments.

---