

FIREFIGHTING & PROTECTION (FFP)

FFP 0030 Fire Fighter 1**Clock Hours:** 191**Prerequisites:** Meet State of Florida Qualifications as defines in State Statute 633.412 Firefighters; qualifications for certification**Lab Fee:** Yes

Meet Eastern Florida State College qualification pertaining to the Fire Science Technology limited access program. This special session program prepares the student for safe, dependable, and prompt performance of a firefighter's tasks during emergencies and in the fire station. Students learn the tasks, duties, and responsibilities of firefighting. Upon successful completion of the course, student will receive state certificate of completion as a Volunteer Firefighter having satisfied all the Florida Bureau of Fire Standards and Training requirements.

FFP 0031 Fire Fighter 2**Clock Hours:** 301**Prerequisites:** This special session program prepares the student for safe, dependable, and prompt performance of a firefighter's tasks during emergencies and in the fire station**Lab Fee:** Yes

Students learn the tasks, duties, and responsibilities of firefighting. Upon successful completion of the course, student will receive state certification as Career Firefighter having satisfied all the Florida Bureau of Fire Standards and Training requirements and state exam.

FFP 1000 Introduction to Fire Science**Credit Hours:** 3

Study of chemistry and physics of fire; detailed study of effects of fire on national economy, as well as review of fire experience in the United States; detailed examination of basic fire classifications, fire causes, and leading fire problems; survey of agencies involved in fire safety, fire protection, and hazardous materials; familiarization of the fire service.

FFP 1040 Private Fire Brigade**Credit Hours:** 3

This course presents the basic fire fighter principles, theory, and job performance requirements as they pertain to the industrial fire brigade fire fighter. The National Fire Protection Association (NFPA) Standard 1001 identifies the minimum standard for structural Fire Fighter 1 and 2, and NFPA 1081 identifies the standards for industrial fire brigade fire fighters. All related subject matter of both NFPA standards will be examined and discussed in this course.

FFP 1109 Fire Department Occupational Safety and Health**Credit Hours:** 3

This course explores basic concepts of occupational health and safety as it relates to emergency service organizations. Topics include risk evaluation and control procedures for fire stations, training sites, emergency vehicles and emergency situations involving fire, EMS, hazardous materials and technical rescue. Upon completion of this course the student should be able to establish and manage a safety program in an emergency service organization.

FFP 1301 Fire Service Hydraulics**Credit Hours:** 3

The course curriculum covers the study of hydrokinetics and hydrostatics, their relationship to flow and pressure, and mathematical hydraulic formulas. The application of hydraulics to assure effective water streams at the fire ground, practical and specific problems related to water supply, including water demand for fire ground operations, sprinklers, standpipes, hose streams & nozzles will be explored. Underwriter's Laboratory (UL) and the National Fire Protection Association (NFPA) standards will be studied. Students must bring a simple calculator with square root function. Course includes pump rating, and pressure and vacuum gauges.

FFP 1304 Aerial Operations**Credit Hours:** 3

Classroom lectures and practices are conducted in the principles and uses of aerial and pumper (quint) apparatus, including the recognition of hazards which may be present during aerial operations. Classroom lectures and exercises will also identify the tactical and safe placement of aerial apparatus. Maintenance issues related to the safe operation of the vehicle and long-term care of the equipment will also be identified. Safe driving operations and maneuvering of the vehicle will be discussed. Student must have working knowledge of fire apparatus and provide their own Personal Protective Equipment as required.

FFP 1793 Fire and Life Safety Educator 1**Credit Hours:** 3

This course provides the public educator with the knowledge and skills needed to successfully perform as a fire and life safety educator as addressed in National Fire Protection Association (NFPA) 1035. For those who practice the multidisciplinary profession of fire and life safety educator (including uniformed fire service personnel and other professionals), topics include fire behavior, community assessment, injury prevention, and juvenile fire-setting. The student will also develop presentation skills and formulate public education programs. This course meets the national certification criteria for Fire and Life Safety Education, Level 1.

FFP 2111 Fire Chemistry**Credit Hours:** 3

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 substances used by arsonists to ignite and accelerate burnings.

FFP 2120 Building Construction and Codes**Credit Hours:** 3

The curriculum in this portion of the Fire Prevention Inspection Certification Program deals with building construction. Topics include identifying hazards from assault by fire and gravity, how building construction can influence fire spread, fire confinement or structural collapse, and other life safety issues. This course does not teach construction techniques, rather it helps students identify construction features and their hazards under fire conditions.

FFP 2302 Fire Apparatus Operator

Credit Hours: 3

Prerequisites: FFP 1301 with a grade of "C" or higher

The curriculum covers the laws, rules, and driving techniques for emergency vehicles, as well as a review of fire service hydraulics. Fire ground evolutions 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 ground hydraulics prior to entering this course. This course meets National Fire Protection Association (NFPA) 1002 standard for Fire Department Apparatus Operators.

FFP 2505 Fundamentals of Fire Prevention

Credit Hours: 3

Prerequisites: FFP 1000 with a grade of "C" or higher

Structure and organization of fire prevention organizations, conducting inspections; interpreting and applying code regulations. A study of procedures and techniques of fire prevention, including surveying and mapping, recognition and elimination of fire hazards, and fire risk analysis as applied to municipal and industrial occupancies.

FFP 2510 Fire Protection Codes and Standards

Credit Hours: 3

Study of the origin and current use of codes and standards as they apply to fire and life safety. Course includes the use and application of the Life Safety Code with regard to occupancy, occupant load, and exiting requirements. (Course outline is derived from the Bureau of Fire Standards).

FFP 2521 Plans Exam and Blueprint Reading

Credit Hours: 3

This course is designed to give students the skills required for assimilating information contained in working drawings and specifications as they relate to the fire inspector, including interpretation of conventional graphic communications using accepted standards and conventions. The course emphasizes reading and interpreting residential and commercial plans and blueprints, such as plats, plots, floor plans, elevations, and architecture. Symbols, abbreviations, principles of technical projection, as well as a review of basic mathematics and terminology used in surveying and construction, and a review or geometry are included. Applied experience finding and interpreting information from authentic drawings is also included.

FFP 2540 Fire Protection Systems and Extinguishing Agents

Credit Hours: 3

Prerequisites: FFP 1000 with a grade of "C" or higher

This course covers the functions and general design principles of suppression systems. Standards and principles of installation are emphasized for detection, signaling, and communication systems, and a review of the characteristics and limitations of extinguishing agents will be addressed.

FFP 2610 Origin and Cause

Credit Hours: 3

This course is the study of the fire department's purpose and responsibilities in fire investigation, including emphasis upon proper procedures and practices for arson and other types of fire investigation. Fire causes, inspections, sources of ignition, origin, spread, speed and directional flow are stressed. A study of applicable laws and pertinent evidence as they relate to illegal fires is overviewed.

FFP 2720 Company Officer Leadership

Credit Hours: 3

Designed to assist fire officers in solving the varied problems and situations they will be required to manage effectively in today's ever-changing fire service. The curriculum includes a review of fire department organization and administration, management theory, leadership, communication, motivation, and small group dynamics.

FFP 2740 Fire Service Instructor

Credit Hours: 3

The curriculum explores methods and mechanics of teaching and adult learning. The course draws from many recognized authorities and emphasizes techniques and devices for specific training and teaching situations including media and visual aids. The course also stresses assessment of teaching effectiveness.

FFP 2741 Fire Service Course Design

Credit Hours: 3

Prerequisites: FFP 2740 with a grade of "C" or higher

The curriculum draws from many recognized authorities in exploring the methods and mechanics of imparting information and adult learning principles. The course emphasizes techniques which have wide application in teaching situations, as well as devices for specific training areas. This course provides the fire service instructor with concepts, knowledge and skills necessary to design, schedule and implement fire service training curriculum. This course meets or exceeds the National Fire Protection Association (NFPA) 1041 Standard for Fire Service Instructor Professional Qualifications as it pertains to Course Design.

FFP 2770 Ethical and Legal Issues for the Fire Service

Credit Hours: 3

This course deals with the entire spectrum of issues facing today's fire service leaders. Topics include: labor relations, human rights and diversity, conflicts of interest, and frameworks for ethical decision-making are used.

FFP 2810 Firefighting Tactics and Strategy 1

Credit Hours: 3

This course is designed to cover basic factors involved in coping with an emergency scene, and determining the best use of available resources in protecting lives and property. The course emphasizes the changing nature of an emergency situation, and the ways in which the fire officer can evaluate the effectiveness of a proposed Incident Action Plan.

FFP 2811 Fire Fighting Tactics and Strategy 2

Credit Hours: 3

Prerequisites: FFP 2810 with a grade of "C" or higher

This course will include a study of action plans, command and control, safety, building dynamics, sprinkler operations, fire company operations, and various types of fire. This is an advanced study intended for higher ranking officers using state and local provided scenarios.