

**School of Public Safety**  
Fire Rescue Institute

Fire Science Academy Applicant:

Welcome to the application process for this year's Fire Science Academy at the Valencia College School of Public Safety. On behalf of the Executive Dean for the School of Public Safety, Dr. Jeffery Goltz, the Fire Science faculty, and our fantastic staff, I want to congratulate you for choosing Valencia for your education.

Valencia College is a student-centered institution; our focus is providing an engaging pathway to a rewarding and meaningful career. The Fire Science Academy's curriculum prepares students to earn an A.S. degree in Fire Science Technology as well as their EMT & Firefighter certifications. This program provides graduates to be competitive in today's fire service employment market and promotional processes.

Thank you for choosing Valencia College to enhance your fire service career. We look forward to processing your application and meeting you in class next fall.



Dan Diehl, MS  
Fire Science Director  
Valencia College School of Public Safety

# CURRICULUM FOR FIRE SCIENCE ACADEMY TRACK 2023 (FSA)

Year 1 Fall Full term	Year 1 Spring Full Term	Year 2 Fall Full Term	Year 2 Spring Full Term	Year 2 Summer	
<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <b>FFP1000</b> Fire Science Fundamentals (3 credits)                 </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <b>FFP1505</b> Fire Prevention (I) (3 credits)                 </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <b>ENC1101</b> English Composition I- Area 1- Communications (3 credits)                 </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; width: 50%; margin-left: auto;"> <b>FFP2120</b> Building Construction for the Fire Service (O) (I) (3 credits)                 </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; width: 50%; margin-left: auto;"> <b>POS2041</b> U.S. Government Area 5- Social Science (3 credits)                 </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; width: 50%; margin-left: auto;"> <b>FFP2510</b> Fire Codes and Standards (3 credits)                 </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; width: 50%; margin-left: auto;"> <b>FFP1612</b> Fire Behavior and Combustion (3 credits)                 </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; width: 50%; margin-left: auto;"> <b>HUM1020</b> Intro to Humanities Area 2- Communications (3 credits)                 </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; width: 50%; margin-left: auto;"> <b>FFP1109</b> Fire Department Occupational Safety &amp; Health (3 credits)                 </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; width: 50%; margin-left: auto;"> <b>MGF1106</b> Liberal Arts Mathematics Area 3- Math (3 credits)                 </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; width: 50%; margin-left: auto;"> <b>*Hydraulics and Pump Operations (3 credits)</b> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; width: 50%; margin-left: auto;"> <b>HSC1531</b> Medical Terminology (3 credits)                 </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; width: 50%; margin-left: auto;"> <b>FFP1540</b> Private Fire Protection Systems I (3 credits)                 </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; width: 50%; margin-left: auto;"> <b>FFP2521</b> Blueprint Reading and Plans Review (I) (3 credits)                 </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; width: 50%; margin-left: auto;"> <b>BSC 1005-</b> Biological Science Area 4- Science (3 credits)                 </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; width: 50%; margin-left: auto;"> <b>EMS1119</b> Fundamentals of Emergency Medical Technology (8 credits)                 </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; width: 50%; margin-left: auto;"> <b>EMS1119L</b> Fundamentals of Emergency Medical Technology (2 credits)                 </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; width: 50%; margin-left: auto;"> <b>EMS1431L</b> Emergency Medical Technician Practicum (2 credits)                 </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; width: 50%; margin-left: auto;">                     15 credits                 </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; width: 50%; margin-left: auto;">                     15 credits                 </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; width: 50%; margin-left: auto;">                     15 credits                 </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; width: 50%; margin-left: auto;">                     12 credits                 </div>	
<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; width: 50%; margin-left: auto;">                     3 credits                 </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; width: 50%; margin-left: auto;">                     Total AS degree credits 60                 </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <b>FFP0010</b> Firefighter I (206 hours)                 </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <b>FFP0020</b> Firefighter II (192 hours)                 </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <b>FFP0363</b> Emergency Vehicle Operator (20 hours)                 </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <i>FFP0010, FFP0020 are the FFI and FFII Minimum Standards training classes- 3 credits will be earned for FFP1040</i> </div>			
<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; width: 50%; margin-left: auto;">                     Satisfies Core Course requirements for AS degree Fire Science Technology                 </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; width: 50%; margin-left: auto;">                     General Education courses- Area is designated                 </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; width: 50%; margin-left: auto;">                     (O) Satisfies <b>BFST</b> <b>Fire Officer I</b> course needed for certification                 </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; width: 50%; margin-left: auto;">                     (I) Program satisfies all of <b>BFST Fire Safety Inspector I</b> classes needed for certification                 </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; width: 50%; margin-left: auto;">                     (EMT Courses) Program satisfies courses needed for certification as an FL EMT                 </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; width: 50%; margin-left: auto;">                     After completing FFP0020- students must pass the BFST test (FL FF II) and complete the 3 EMS courses in Year 2 Spring in order to be certified as a Firefighter.                 </div>

**Fire Science Technology, Academy Track (Limited- Access) This program includes:**

- Associate in Science Degree- Fire Science Technology
- EMT (Emergency Medical Technology)-Technical Certificate
- Minimum Standards Training-Fire Fighter I and II- Career Certificate

It is designed for students seeking a career as firefighters, emergency medical technicians, fire inspectors, or other fire service or life safety compliance positions.

The Fire Science Academy Track is a cohort model, where students complete their degree with the same group of students in every class. Research indicates this system provides more support for students and results in a higher student success rate. The objective is to provide the knowledge, skills, and abilities required for a successful fire service or life safety compliance career. The curriculum includes a strong foundation in fire science coupled with critical emergency medical service and firefighting training and education.

Graduates of this program will earn the Associate's Degree in Science-Fire Science Technology and be eligible to test for certification as Fire Fighter I and II, and Fire Safety Inspector I per the Florida Bureau of Fire Standards and Training (BFST). Please refer to the following website for specific information about certification requirements:

<http://www.myfloridacfo.com/Division/SFM/BFST/Standards/default.htm>

Note: In order to obtain certification for Fire Fighter from the Florida Bureau of Fire Standards and Training, students must successfully pass the BFST administered written and practical tests for FFII.

In addition, graduates will be eligible to test for state board certification as an EMT adhering to the standards and regulations established by the U.S. Department of Transportation, State of Florida Department of Health/Bureau of Emergency Medical Services, and the Committee on Accreditation of the Educational Programs for Emergency Medical Services Profession.

General admission procedures for this program are found in the Admissions section of the Valencia College catalog. The Fire Rescue Institute also provides information about specific admission criteria.

Estimated program expenses are given in the financial section of the catalog and the orientation Packet.

Note: The classroom sessions of the Fire Science Technology Degree will be delivered at the School of Public Safety, 8600 Valencia College Ln., Orlando, 32825.

**EMT (Emergency Medical Technology)-Technical Certificate**

For the EMT certificate, a minimum grade of C is required in all courses to meet prerequisite and graduation requirements. All three courses must be completed with a "C" -75% or greater. Any student admitted to the Fire Science Academy program who fails or withdraws from any two EMS courses (can be the same course or two different courses) must petition the Health Sciences EMS Program Committee for re-evaluation and readmission. Students will be allowed to petition no more than one time. If unsuccessful in any one of the three co-requisite components, the student will not receive a certificate and a letter of completion for the EMT program. Per the State of Florida and Valencia College, EMT students must pass a cumulative

class final exam (EMS 1119) and a Lab Final Trauma and Medical Practical Scenario Exam (EMS 1119L) with a minimum of 75% or better to complete the EMT program. Any student that earns less than 75% on the Final Class Exam or the Lab Practical Final Scenario exams receives a final grade of “F,” regardless of previous class or lab average.

A grade of “D,” “F” or “W” in any EMT course will result in dismissal from the program.

Note: The Emergency Medical Technician certificate courses will be offered at the West Campus of Valencia College, 1800 S Kirkman Rd, Orlando, FL 32811.

**Minimum Standard Class (Firefighter I & II, MSC) Career Certificate**

Students must achieve a minimum of 80% or greater average on all written evaluations and 70% or greater on all skill evaluations at the end of the program to complete the MSC Program. Students that are receiving benefits from the Veterans Administration shall maintain an average of 80% or better for the tests taken for any one subject test. If not, the student will be dropped from the course when academic progress is not shown, and the Veterans Administration will be notified.

Note: The Firefighter I and II courses will be offered at the School of Public Safety and at the Fire Training Facility located at John Young Parkway and Oak Ridge Road, Orlando, FL 32809.

**The Fire Science Academy program at Valencia College is a Limited – Access Program. Admission to Valencia College does not imply acceptance to the Fire Science Academy. Students must apply and complete phases of the selection process before being accepted to the program.**

## Selection Phases

### Phase 1

Candidates must:

- be a high school graduate or equivalent or in the process of graduating when applying
- cannot have a dishonorable discharge from the Armed Forces of the United States if the candidate is a veteran
- attend a mandatory informational session at the School of Public Safety (We will take attendance)
- complete a Valencia College application (fee required)
- complete the FSA application questionnaire
- be a nonuser of tobacco or tobacco products for at least one year immediately preceding application, as evidenced by the signed affidavit of the applicant. (The affidavit will be notarized by the Fire Rescue Institute)
- submit the following:
  - Valencia College application
  - Completed FSA Application questionnaire (with signed Tobacco affidavit)
- High school or GED transcripts can be unofficial for phase 1 (an official high school transcript must be submitted if candidate proceeds to phase 3)

All documentation must be submitted by a specific date to the Fire Rescue Institute

Note: The first 100 candidates to complete the process will be considered. The cutoff point for applications will be limited to 100. The selection process will be a compilation of scoring phases 1 through 3 as listed below.

Candidates for Phase 1 will be graded based on the following:

- all steps in phase I have been completed and are acceptable
- a graded score based on the rubric used for the questionnaire
- a graded score based on the rubric used for high school or GED transcript

### Phase 2

From Phase 1, 30 candidates will be selected. The candidate must:

- be prepared for and attend an oral interview at the Fire Rescue Institute

Candidates for phase 2 will be graded on the following:

- graded score from the oral interview
- cumulative scores from phases 1 and 2

Based on the criteria above, 25 candidates will be tentatively selected to attend the Fire Science Academy.

### Phase 3

Candidates must:

- submit their official high school or GED transcript
- be fitted for and obtained uniforms one week before the start of the fall semester  
**(once paid for, there will be no refunds issued for the uniforms)**
- pay tuition to attend college courses for the fall semester

If the candidate is successful in completing Phases 1 through 3, then the candidate will be selected to attend the Fire Science Academy.

- Criminal background checks (fingerprinting), drug testing, physical examinations and affidavits for non-use of tobacco products are required for the EMT program and for the Minimum Standards- Firefighter I and II program per Florida statute. Student must be 18 years of age before starting the Fire Fighter Minimum Standards Courses.

The Fire Science Academy requires students to complete the Fire Science Technology Associate Degree initially. The cohort of students will have a specific schedule of courses to complete. Therefore, there are no electives in the Fire Science Technology degree for the Fire Science Academy students.

All students will take the same courses and classes each semester, provided college credit has not been awarded per individual assessment.

#### Potential Careers

- Firefighter
- Emergency Manager
- Risk Manager
- Emergency Medical Technician
- Fire Inspector
- Fire Instructor
- Fire Officer
- Safety Compliance Manager

### Program Outcomes

- Communicate effectively in the fire protection environment
- Apply fire prevention codes, regulations, standards, and practices
- Identify fire science and fire technology principles, concepts and practices and their application to public and life safety
- Integrate command, management, leadership and safety principles for emergency and non-emergency situations
- Recognize how the built environment affects fire and life safety
- Examine educational and training principles and ideologies for public and life safety disciplines.
- Perform entry-level skills as described by the scope of practice for EMT.
- Perform effective communication in the pre-hospital healthcare environment.
- Structure a safe environment for patients in the pre-hospital setting.
- Practice professional behaviors in the pre-hospital healthcare setting.
- Execute safe clinical decision making in the pre-hospital environment.
- Meet the requirements for Firefighter I and Firefighter II per the Florida Bureau of Fire Standards and Training
- Apply fire sciences theory and suppression techniques to the role of Firefighter
- Use the proper techniques, strategies, tools, skills, and equipment employed by the fire services in a safe and efficient manner
- Apply interpersonal, critical thinking, and problem-solving skills appropriate to the role of Fire Fighter in the classroom, in labs and other practical application settings.
- Work effectively as part of an inter-professional team with classmates, fire instructors, fire services personnel, other emergency response personnel, and special populations
- Perform the necessary duties of a firefighter in such areas as fire suppression, emergency patient care, environmental protection, and special rescue operations
- Identify professional attitudes and behaviors consistent with the expectations of a professional firefighter.

**Fire Science Academy Track**  
**Program Costs and Fees**  
**(Costs are approximate and may change)**

<b>Phase 1- application process</b>	
Application fee for Valencia College	\$35.00
submitting application and documentation for <b>Phase 1</b>	No cost
<b>Phase 2- oral interview</b>	No cost
<b>Phase 3- final selection: Candidate has successfully completed phases 1 - 3 and has tentatively been selected to attend Fire Science Academy</b> Uniforms costs-	Approximately \$200-310
<b>Year 1 Fall 2023</b>	
Tuition-15 credits	\$1545.90
Texts	\$125-450
<b>Spring 2024</b>	
Tuition- 15 credits	\$1545.90
Texts	\$125-450
<b>Year 2</b>	
<b>Fall 2024</b>	
Tuition-15 credits	\$1545.90
Texts	\$125-450
<b>Spring 2025</b>	
EMT tuition-12 credits	\$1236.72
texts - EMS1119 and EMS1119L	\$247.99
<b>Other EMT costs</b>	
Background check- fingerprinting/drug testing	\$190.00

AHA Basic Life Support Certification	\$40.00
Stethoscope	\$20.00
Pen light	\$5.00
Special Lab fees	\$183.00
EMT state certification	\$105.00
<b>Summer 2025</b>	
Firefighter Minimum standards training- tuition and fees	\$3,000.00
Background check- fingerprinting	\$45.00
Physical exam and drug screening	\$145.00
Personal Protective Equipment- firefighting gear - approx.	\$650.00
Emergency Vehicle Operators' Course	\$69.00
Texts	\$97.00
State FF Certification Fee	\$35.00
Pearson VUE Test Fee	\$42.00
<b>Total costs*</b>	<b>*\$12,300-\$12,500</b>

\*Depending on catalog changes in March.



## **Helpful Information**

### Applying for Financial Aid?

- 1) Complete the Free Application for Federal Student Aid (FAFSA) online at [studentaid.ed.gov/sa/fafsa](http://studentaid.ed.gov/sa/fafsa). Enter Valencia's School Code (006750) as a school who will receive the results of your FAFSA and allow at least 2 weeks for your form to be processed. Review the [FAFSA Tutorial](#) provided by the University of California Santa Barbara (UCSB).

You may choose any of these three methods to file a Free Application for Federal Student Aid (FAFSA):

- Apply [online](#) (Recommended) or
  - [Complete](#) a PDF FAFSA (Note: PDF FAFSAs must be mailed for processing) or
  - Request a paper FAFSA by calling the Federal Student Aid Information Center at 1-800-4-FED-AID (1-800-433-3243) or 1-319-337-5665. If you are hearing impaired, please contact the TTY line at 1-800-730-8913.
  - [The top Frequently Asked Questions about the FAFSA](#)
- 2) Request transcripts. Federal regulations require all students applying for financial aid to provide the Admissions Office with documentation certifying your high school graduation, GED or home school credential. If mailed, please send to:

Valencia College  
Admissions and Records Office  
PO Box 3028  
Orlando, FL 32802-3028

- 3) Start preparing for the future. Orange County Fire Rescue Department (OCFRD) use the Candidate Physical Ability Test (CPAT) as the initial physical ability test for potential Firefighter candidates. This is a timed test based off eight components and is very similar to the Fit for Fire Test. OCFRD offers this test monthly for those interested in becoming an Orange County Fire firefighter, paramedic and firefighter recruit. For more information Contract Orange County Fire Rescue Department Recruitment Office at [ocfrdcareers@ocfl.net](mailto:ocfrdcareers@ocfl.net) or (407) 836-9023 or Twitter @OCFireRescue or Facebook @OCFireRescue.

If you have additional questions, please feel free to contact the Career Program Advisor:

### **Hernando Otero**

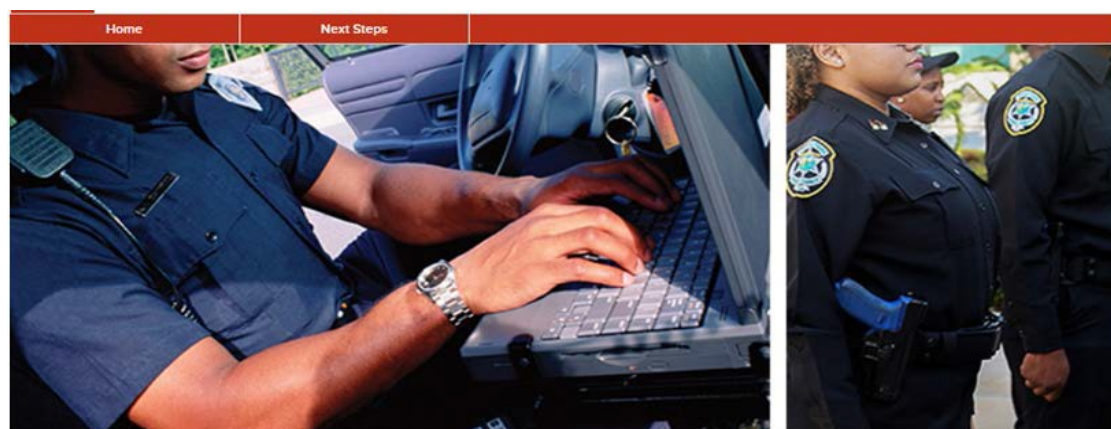
School of Public Safety, Valencia College  
8600 Valencia College Lane, Orlando, FL 32825  
407-582-8255 (direct line) 407-582-8200 (main line)  
[hotoero@valenciacollege.edu](mailto:hotoero@valenciacollege.edu)

- Step 1: Apply to become a Valencia student (admissions application)
- After information session requirement has been met, you will receive the invitation to apply email
- Step 2: You will have to start a new application and select the Fire Science Academy as both the information session attended and the program you are applying to.

## Step 1: Apply



## Step 2: Complete Secondary Fire Science Academy Application



Domestic Credit Application

