

FIRE SCIENCE TECHNOLOGY, ASSOCIATE IN SCIENCE

Program Code: FRAS

Meta-Major: PBSA

Location(s): Palm Bay

Delivery Method(s): On-Campus

Previous Degree Required: HS Diploma

Eligible for Financial Aid: Yes

Additional Limited Access Application Process Required: No

Program Testing Requirements: CPT - Common Placement Test (PERT, ACCUPLACER, SAT, ACT)

Classification of Instructional Programs (CIP) Code: 43.0201

Florida Department of Education CIP Code: 1743020112

Students learn the theory of fire science as well as practical application. Courses are also utilized to qualify fire personnel for career advancement. Entrance recommendations:

1. High School graduate or academic equivalent
2. Interest and aptitude in the firefighting field
3. Florida Minimum Standards Certificate of Compliance.

Credit may also be received for courses through credit by exam.

Students who possess a State of Florida Firefighter Minimum Standards Certificate of Compliance may request a credit for FFP 1000 Introduction to Fire Science. [Visit the program page for more details and how to apply](#) or call (321) 433-5707.

Program Requirements

Code	Title	Credit Hours
General Education Courses		
ENC 1101	Composition 1	3
SPC 2608	Fundamentals of Speech Communication	3
Computation/Natural Science Requirement		3
Humanities Requirement		3
Social/Behavioral Science Requirement		3
Major Courses		
FFP 1000	Introduction to Fire Science	3
FFP 1109	Fire Department Occupational Safety and Health	3
FFP 2111	Fire Chemistry	3
FFP 2120	Building Construction and Codes	3
FFP 2505	Fundamentals of Fire Prevention	3
FFP 2540	Fire Protection Systems and Extinguishing Agents	3
FFP 2610	Origin and Cause	3
FFP 2720	Company Officer Leadership	3
FFP 2770	Ethical and Legal Issues for the Fire Service	3
FFP 2810	Firefighting Tactics and Strategy 1	3
Technical Electives		
Select 15 credits from the following:		15
FFP 1304	Aerial Operations	
FFP 1793	Fire and Life Safety Educator 1	
FFP 2301	Fire Hydraulics	
FFP 2302	Fire Apparatus Operator	

FFP 2510	Fire Protection Codes and Standards	
FFP 2521	Plans Exam and Blueprint Reading	
FFP 2740	Fire Service Instructor	
FFP 2741	Fire Service Course Design	
FFP 2811	Fire Fighting Tactics and Strategy 2	
Total Credit Hours		60

Note:

- A grade of "C" or higher is necessary in each major course for progression and graduation.
- These courses satisfy the curriculum required by the Bureau of Fire Standards and Training for the Fire Officer 1 Certification Examination:

Code	Title	Credit Hours
FFP 2120	Building Construction and Codes	3
FFP 2720	Company Officer Leadership	3
FFP 2740	Fire Service Instructor	3
FFP 2810	Firefighting Tactics and Strategy 1	3

- These courses satisfy the curriculum required by the Bureau of Fire Standards and Training for the Fire Officer 2 Certification Examination:

Code	Title	Credit Hours
FFP 2540	Fire Protection Systems and Extinguishing Agents	3
FFP 2741	Fire Service Course Design	3
FFP 2770	Ethical and Legal Issues for the Fire Service	3
FFP 2811	Fire Fighting Tactics and Strategy 2	3

- These courses satisfy the curriculum required by the Bureau of Fire Standards and Training for the Pump Operator Certification Examination:

Code	Title	Credit Hours
FFP 2301	Fire Hydraulics	3
FFP 2302	Fire Apparatus Operator	3

- These courses satisfy the curriculum required by the Bureau of Fire Standards and Training for the Fire Inspector Certification Examination:

Code	Title	Credit Hours
FFP 2120	Building Construction and Codes	3
FFP 2505	Fundamentals of Fire Prevention	3
FFP 2510	Fire Protection Codes and Standards	3
FFP 2521	Plans Exam and Blueprint Reading	3
FFP 2540	Fire Protection Systems and Extinguishing Agents	3

Must also satisfy Florida Statute 633.216.

- Fire Officer 1 and Fire Officer 2 may have additional course and testing requirements. Contact the Fire Science Office at (321) 433-5707.

Learning Outcomes: Fire Science Technology A.S.

1. Examine the history, current trends and function of the fire service
 - *Supports Core Ability: Process Information*
2. Interpret fire prevention and inspection practices
 - *Supports Core Ability: Process Information*
3. Examine the manner in which a company officer effectively leads a group of firefighters
 - *Supports Core Ability: Think Critically and Solve Problems*
4. Examine the manner in which Ethical and Legal Issues are managed
 - *Supports Core Ability: Model Ethical and Civic Responsibility*
5. Explore basic concepts of occupational health and safety as it relates to emergency service organizations
 - *Supports Core Ability: Process Information*
6. Demonstrate the use of firefighting tactics and strategies
 - *Supports Core Ability: Think Critically and Solve Problems*