

AEROSPACE TECHNOLOGY, ASSOCIATE IN SCIENCE

Previous Degree Required: HS Diploma

Eligible for Financial Aid: Yes

Delivery Method(s): On-Campus

Location(s): Cocoa

Additional Limited Access Application Process Required: Yes

Program Testing Requirements: Assessment in Reading, Writing, and Math

Academic Community: STEM Science, Technology, Engineering, and Mathematics

Program Code: ATAS

Classification of Instructional Programs (CIP) Code: 15.0801

Florida Department of Education CIP Code: 1615080100

The Aerospace Technology A.S. degree program has the following associated College Credit Certificates (CCCs):

- [Aerospace Technician CCC](#)
- [Structural Assembly Technician CCC](#)

This program prepares students for employment as aerospace technicians who assemble, service, test, operate, and repair systems associated with both expendable and reusable space launch vehicles, payloads, related laboratories, and ground support equipment. This program also provides supplemental training for persons previously or currently employed in this industry. Instruction is designed to qualify students for examinations for certification as an aerospace technician in various skill areas. Graduates may also qualify for many applied-technology jobs such as testing, fabrication, assembly, production, repair, and manufacturing.

[Visit the program page for more details and how to apply.](#)

Program Requirement

Code	Title	Credit Hours
General Education Courses		
ENC 1101	Composition 1	3
MAC 1105	College Algebra	3
Humanities Core Requirement		3
Natural Science Core Requirement		3
Social/Behavioral Science/Core-Civic Literacy Requirement		3
Major Courses		
AFR 1100	Introduction to the Aerospace Workplace	3
EETC 1005	Basic Electricity/Electronics	4
EETC 2609	Electronic Fabrication and Fiber Optics	3
ETIC 1830	Materials and Processes 1	3
ETIC 1832	Materials and Processes 2	3
ETIC 1850	Aerospace Systems	4
ETIC 1852	Aerospace Test and Measurements	4
ETIC 1853	Aerospace Safety and Quality	3
ETIC 1855	Aerospace Structural Fabrication 1	3
ETIC 2411	Technical Task Analysis/Implementation	3
ETIC 2851	Applied Mechanics	4
ETIC 2856	Aerospace Structural Fabrication 2	3

ETMC 2318	Aerospace Fluid Systems	3
PSC 1341	Physical Science for Today's World	3

Support Courses

Select one of the following: 3

ENC 2210	Technical Writing
MAT 1033	Intermediate Algebra
SPC 2608	Fundamentals of Speech Communication

Technical Electives (Optional)

ASC 2949	Aerospace Internship
ETDC 2364	SolidWorks Fundamentals
ETDC 2368	SolidWorks Intermediate
ETDC 2369	SolidWorks Advanced

Total Credit Hours 64

For application and program information contact: Aerospace Programs at (321) 433-5771 or [email](#).

Learning Outcomes: Aerospace Technology A.S.

- Demonstrate electrical skills that reflect the basic understanding of electrical circuits, the ability to use basic test equipment, and the ability to fabricate electrical and fiber optic cables.
 - *Supports Core Ability: Process Information*
- Practice shop safety, personal safety, equipment safety and proper usage of tools and equipment
 - *Supports Core Ability: Model Ethical and Civic Responsibility*
- Fabricate a capstone project specific to aerospace utilizing technical reports, blueprints and other data sources. Troubleshooting and repair of electrical, mechanical, and fluid systems will be required. reports, blueprints and other data sources.
 - *Supports Core Ability: Think Critically and Solve Problems*
- Demonstrate mechanical skills that reflect the ability to use hand tools bench tools, and precision measuring equipment to fabricate projects from blueprints and technical specifications
 - *Supports Core Ability: Communicate Effectively*
- Demonstrate the ability to work with composite materials including understanding what composite materials are and to use processes such as vacuum bagging to fabricate basic parts.
 - *Supports Core Ability: Work Cooperatively*