AEROSPACE TECHNICIAN (CCC)

Previous Degree Required: HS Diploma
Eligible for Financial Aid: Yes
Delivery Method(s): On-Campus
Location(s): Cocoa
Limited Access: Yes
Program Testing Requirements: Not Required
Academic Community: INMC Industry/Manufacturing and Construction
Program Code: ARCC
Classification of Instructional Programs (CIP) Code: 15.0801
Florida Department of Education CIP Code: 0615080103

This certificate is part of the A.S. Aerospace Technology degree program.

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.

Program-Specific Admissions Information: This is a limited-access program; student must submit a separate application to the program.

Application Deadlines: Fall: July 10 (Day Program); Spring: November 1 (Night Program)

Refer to the College Credit Certificate overview page to find information about admission, graduation, general education and other requirements. .

Visit the program page for more information.

Learn how to apply. Make an appointment. Explore your future! Ask for the Aerospace Information Package Email which contains specific instructions about applying to this certificate program: CareerTechLA@easternflorida.edu.

Program of Study

Code	Title	Credit Hours
Major Courses		
AFR 1100	Introduction to Aerospace	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 [1]	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
Total Hours:		**43**

Course Sequence

Below is the recommended sequence for taking courses in this degree. Using this guide and meeting with your assigned advisor each term is the key to successful program completion.

Please note that course prerequisites, including required developmental math, reading, or writing, need to be completed to continue on to the more advanced course. Click on the course number to see the requirements.

The Aerospace Technician College Credit Certificate operates in a cohort system.

There are cohorts that start in the fall and spring Semester. There are no major courses offered during the summer semester. All courses are in a standard 16 week semester timeline.
A student starts a cohort with the 1st Semester Course and stays with that group of students in that cohort for the entire two year CCC.

Each of the program courses are offered in one of the cohorts each semester. The course sequencing provides a clear path for each major course.
Out of cohort and out of sequence courses can be accommodated in a few exceptions and are developed and approved by the Aerospace Technology Program.

Year 1		
Term 1		**Credit Hours**
AFR 1100	Introduction to Aerospace	3
ETIC 2851	Applied Mechanics	4
	Credit Hours	**7**
Term 2		
EETC 1005	Basic Electricity/Electronics	4
ETIC 1830	Materials and Processes 1	3
ETIC 1853	Aerospace Safety and Quality	3
	Credit Hours	**10**
Year 2		
Term 3		
ETIC 1850	Aerospace Systems	4
EETC 2609	Electronic Fabrication and Fiber Optics	3
ETIC 1855	Aerospace Structural Fabrication 1	3
ETIC 1832	Materials and Processes 2	3
	Credit Hours	**13**
Term 4		
ETIC 2411	Technical Task Analysis/Implementation	3
ETIC 2856	Aerospace Structural Fabrication 2	3
ETIC 1852	Aerospace Test and Measurements	4
ETMC 2318	Aerospace Fluid Systems	3
	Credit Hours	**13**
	Total Credit Hours	**43**

Learning Outcomes

1. 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.
   - *Core Ability Supported: Process Information*

2. Practice shop safety, personal safety, equipment safety and proper usage of tools and equipment
    - *Core Ability Supported: Model Ethical and Civic Responsibility*
3. 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.
    - *Core Ability Supported: Think Critically and Solve Problems*
4. 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
    - *Core Ability Supported: Communicate Effectively*
5. 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.
    - *Core Ability Supported: Work Cooperatively*