

ADVANCED TECHNOLOGY SPECIALIZATION - ENGINEERING TECHNOLOGY, ASSOCIATE IN SCIENCE

Program Code: ETASADT
Meta-Major: STEM
Location(s): Cocoa, Palm Bay
Delivery Method(s): On-Campus, Hybrid
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: 15.0000
Florida Department of Education CIP Code: '1615000001

Students can only select one major and one specialization.

The Advanced Technology Specialization prepares students for positions in electronics assembly and repair. Students will also be prepared to earn industry-recognized IPC certifications sought by many local employers. [Visit the program page for more details and how to apply.](#)

Specialization Requirements

Code	Title	Credit Hours
General Education Courses		
ENC 1101	Composition 1	3
MAC 1105	College Algebra	3
	Humanities Requirement	3
	Natural Science Requirement	3
	Social/Behavioral Science Requirement	3
Major Courses		
EET 1084	Introduction to Electronics	3
ETDC 2364	SolidWorks Fundamentals	3
ETI 1420	Manufacturing Processes and Materials	3
ETI 1701	Industrial Safety	3
ETI 2110	Introduction to Quality Assurance	3
ETIC 2001	Applied Manufacturing Mechanics	3
Advanced Technology Specialization		19
EETC 1610	Through-Hole and Surface-Mount Soldering	
EETC 2620	Advanced Surface-Mount Soldering Technology	
ETIC 2121	Non-Destructive and Destructive Testing	
ETIC 2460	Composites Fundamentals	
ETMC 1010	Mechanical Measurement	
ETS 1520	Instrumentation Fundamentals	
ETSC 1240	Fiber Optic Technologies	
Technical Electives		
	Select eight Technical Elective credits ¹	8
Total Credit Hours		60

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Courses in the specializations above may be used as technical electives as long as they are not being used to fulfill the specialization requirement. Students may take any technical elective they choose.

Course	Title	Credit Hours
Year 1		
Term 1		
ENC 1101	Composition 1	3
Credit Hours		3
Term 2		
EET 1084	Introduction to Electronics	3
EETC 1610	Through-Hole and Surface-Mount Soldering	3
ETI 1701	Industrial Safety	3
ETMC 1010	Mechanical Measurement	1
MAC 1105	College Algebra	3
Credit Hours		13
Term 3		
EETC 2620	Advanced Surface-Mount Soldering Technology	3
ETDC 2364	SolidWorks Fundamentals	3
ETI 1420	Manufacturing Processes and Materials	3
ETI 2110	Introduction to Quality Assurance	3
ETIC 2001	Applied Manufacturing Mechanics	3
ETIC 2121	Non-Destructive and Destructive Testing	3
Credit Hours		18
Year 2		
Term 4		
	Social/Behavioral Science Requirement	3
Credit Hours		3
Term 5		
	Humanities Requirement	3
	Natural Science Requirement	3
ETS 1520	Instrumentation Fundamentals	3
ETSC 1240	Fiber Optic Technologies	3
Credit Hours		12
Term 6		
ETIC 2460	Composites Fundamentals	3
Technical Electives		8
Credit Hours		11
Total Credit Hours		60

Learning Outcomes: Engineering Technology A.S.

- Demonstrate proficiency using engineering drafting software.
 - Supports Core Ability: Think Critically and Solve Problems
- Demonstrate industrial safety, health, and environmental requirements.
 - Supports Core Ability: Process Information
- Demonstrate methods of quality assurance in manufacturing.
 - Supports Core Ability: Process Information
- Demonstrate modern industrial processes and materials.

- *Supports Core Ability: Process Information*
- 5. Demonstrate proficiency using tools, instruments and testing devices
 - *Supports Core Ability: Think Critically and Solve Problems*