

# ELECTRONICS SPECIALIZATION - ENGINEERING TECHNOLOGY, ASSOCIATE IN SCIENCE

**Program Code:** ETASEO  
**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. Students may receive a specific A.S./B.A.S. degree only one time. While students may take courses from multiple specializations, however, the degree will be awarded only once.

The Electronics Specialization provides electronics technicians skills in manipulating, monitoring, maintaining and working with electronic equipment of different kinds as well as the manufacture of electronic components and subassemblies used in the equipment of many industries. This includes the use of common electronic bench equipment, circuit theory, and mathematics to understand digital and analog electronic circuits. [Visit the program page for more details and how to apply.](#)

## Specialization Requirements

Code	Title	Credit Hours
<b>General Education Courses</b>		
ENC 1101	Composition 1	3
MAC 1105	College Algebra	3
	<a href="#">Humanities Core Requirement</a>	3
	<a href="#">Natural Science Core Requirement</a>	3
	<a href="#">Social/Behavioral Science/Core-Civic Literacy Requirement</a>	3
<b>Major Courses</b>		
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
<b>Electronics Specialization</b>		
CETC 1114	Digital Fundamentals	4
EET 2324	Electronic Communications	3
EETC 1025	Circuit Fundamentals	4
EETC 1141	Analog Devices	4
EETC 1142	Analog Circuits	4
EETC 1610	Through-Hole and Surface-Mount Soldering	3

<b>Technical Electives</b>	
<a href="#">Select five Technical Elective credits</a> <sup>1</sup>	5
<b>Total Credit Hours</b>	<b>60</b>

<sup>1</sup>

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
<b>Year 1</b>		
<b>Term 1</b>		
ENC 1101	Composition 1	3
	<b>Credit Hours</b>	<b>3</b>
<b>Term 2</b>		
EET 1084	Introduction to Electronics	3
ETI 1701	Industrial Safety	3
EETC 1610	Through-Hole and Surface-Mount Soldering	3
MAC 1105	College Algebra	3
	<b>Credit Hours</b>	<b>12</b>
<b>Term 3</b>		
EETC 1025	Circuit Fundamentals	4
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
	<b>Credit Hours</b>	<b>16</b>
<b>Year 2</b>		
<b>Term 4</b>		
	<a href="#">Social/Behavioral Science/Core-Civic Literacy Requirement</a>	3
	<b>Credit Hours</b>	<b>3</b>
<b>Term 5</b>		
EET 2324	Electronic Communications	3
EETC 1141	Analog Devices	4
	<a href="#">Humanities Core Requirement</a>	3
	<a href="#">Natural Science Core Requirement</a>	3
	<b>Credit Hours</b>	<b>13</b>
<b>Term 6</b>		
CETC 1114	Digital Fundamentals	4
EETC 1142	Analog Circuits	4
	Technical Electives	5
	<b>Credit Hours</b>	<b>13</b>
	<b>Total Credit Hours</b>	<b>60</b>

## 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*
- 4. 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*