

ELECTRONICS ENGINEERING TECHNOLOGY, A.A.S.

The **Electronics Engineering Technology degree** is designed to provide the student with fundamentals of electricity and electronics, including digital electronics and microcomputers, specialized manufacturing electronics, industrial automation and electronic communications. This program emphasizes a hands-on approach to learning through projects.

For more information about Electronics Technology, please visit the program page (<http://www.cod.edu/electronics/>).

Degree Requirements

Field of Study Code: ELECT.AAS

Code	Title	Credits
Program Requirements		
ELECT 1100	Electricity and Electronics Fundamentals	3
ELECT 1101	Circuits I	3
ELECT 1102	Circuits II	4
ELECT 1120	Electronic Documentation and Fabrication	2
ELECT 1141	Digital Fundamentals	3
ELECT 1151	Electronic Devices and Applications	4
ELECT 1161	Modern Communications	3
ELECT 2273	Embedded Systems & Microcontroller Programming	3
ELMEC 1106	Power Electricity and Rotating Machines	4
ELMEC 2510	Process and Automation Controls	3
Program Electives		
Select 14 credits from ELECT or ELMEC		14
General Education		
Select 18 credits ¹		18
Total Credits		64

¹ Each candidate for an Associate in Applied Science (A.A.S.) degree shall satisfactorily complete 18 credits in General Education.

General Education Requirements

For general education requirements for the A.A.S. degree, please visit the A.A.S. degree catalog page (<https://catalog.cod.edu/associate-degree-programs/associate-applied-science-degree/>).

Suggested Semester Sequence

Course	Title	Credits
First Semester		
ELECT 1100	Electricity and Electronics Fundamentals	3
ELMEC 1106	Power Electricity and Rotating Machines	4
Gen Ed: Mathematics		3-5
Gen Ed: Physical & Life Science		3-5
Credits		13-17
Second Semester		
ELECT 1101	Circuits I ¹	3
ELECT 1141	Digital Fundamentals	3
ELMEC 2510	Process and Automation Controls	3

Gen Ed: Social & Behavioral Sciences		3
Gen Ed: Speech		3
Credits		15
Summer Semester		
ELMEC 2520	Industrial Control and Data Acquisition	3
ENGLI 1101	English Composition I	3
Credits		6
Third Semester		
ELECT 1102	Circuits II ¹	4
ELECT 1151	Electronic Devices and Applications ¹	4
ELECT 1161	Modern Communications ¹	3
ELECT 2273	Embedded Systems & Microcontroller Programming ¹	3
Program Elective		3
Credits		17
Fourth Semester		
ELECT 1120	Electronic Documentation and Fabrication	2
Gen Ed: Humanities & Fine Arts		3
Program Elective		3
Program Elective		4
Credits		12
Summer Term		
Program Electives (to reach total)		3
Credits		3
Total Credits		66-70

¹ Course has a prerequisite.

Program Milestones

First Semester

- Consider joining or visiting with a professional, cultural, or interest-based Student Club (https://www.cod.edu/student_life/clubs_org/).

Second Semester

- If you have not done so yet this semester, it is important to make an announcement with a Faculty or Program Advisor (<https://www.cod.edu/academics/programs/electronics/#faculty>) to discuss your future academic progress.

This page lists programs related to one another.

- Advanced Electronics Technology, Certificate (<https://catalog.cod.edu/programs-study/electronics-technology/advanced-electronics-technology-certificate/>)
- Biomedical Engineering Technology, A.A.S. (<https://catalog.cod.edu/programs-study/electronics-technology/biomedical-engineering-technology-aas/>)
- Electronics Technology, Certificate (<https://catalog.cod.edu/programs-study/electronics-technology/electronics-technology-certificate/>)
- Industrial Controls and Automation, Certificate (<https://catalog.cod.edu/programs-study/electronics-technology/industrial-controls-automation-certificate/>)

- Renewable Energy Technology, Certificate (<https://catalog.cod.edu/programs-study/electronics-technology/renewable-energy-technology-certificate/>)