Computer Networking and Electronics Technology: Electronics Technology

Award Type: Associate in Science

The associate degree in electronics technology provides the basic knowledge and skills required for a wide variety of occupations in the field of electronics, such as electronics technician, equipment assembler, electronics manufacturing technician, and commercial electronics repairer. This degree will also allow the student to transfer into an engineering technology baccalaureate program.

The graduate of the Associate in Science in Computer Networking and Electronics Technology: Electronics Technology will:

- Demonstrate a fundamental mastery of knowledge and the use of electronic equipment in electrical, digital and analog circuits.
- Use computer simulation and design software to conduct, analyze and interpret electrical, digital and analog circuits.
- Make calculations involving various electrical laws, formulas and principles for predicting circuit parameters using algebra and trigonometry required for electronics.
- Use research strategies to acquire information pertinent to the solution of electronic circuits and systems.
- Write technical laboratory reports with conclusions.
- Demonstrate learned skills with a capstone project requiring you to design, build and evaluate a piece of electronic equipment.

Program Requirements

A major of 22 units is required for the associate in science degree.

Required core courses (22 units):

Course Number	Course Title	Units
EL 118	Fundamentals of DC and AC Circuits Analysis	3.0
EL 119	Fundamentals of DC and AC Circuits Analysis Laboratory	2.0
EL 122	Electronic Devices and Circuits	3.0
EL 123	Electronic Devices and Circuits Laboratory	2.0
EL 125	Digital Devices and Circuits	3.0
EL 126	Digital Devices and Circuits Lab	2.0
EL 135	Electronic Measurement and Instrumentation	3.0
EL 136	Electronics Measurement and Instrumentation Laboratory	2.0
EL 146	Electronic Product Design, Fabrication and Documentation	2.0