

Coastline Community College
Military Program
Associate in Arts (AA) Degree
Major: Electronics

This sequence of classes is designed to give the student a solid foundation in Electronics using applied theory to solve practical applications utilizing the materials and forces of nature for the benefit of society. Students who successfully complete this sequence of classes will be able to pursue a Bachelor's degree in Engineering, Engineering Technology, or be employed as a skilled productive member of an Engineering team in Industry. Area of interest in this program include: theory and application of electric and electronic systems and components, including circuits, electro-magnetic fields, energy sources, communications devices, computers, and other components and devices powered by electricity. Design, assembly, installation, operation, maintenance, and repair of electronic equipment used in industry and manufacturing including the fabrication and assembly of related components. Design, development, testing, and maintenance of electro-mechanical and servo-mechanical devices and systems.

Required courses:

ELEC C101	Introduction to Electronics	3 semester hours
ELEC C102	D/C Circuits	4 semester hours
ELEC C103	A/C Circuits	4 semester hours
ELEC C104	Digital Circuits	3 semester hours

Choose 3 of the following courses:

ELEC C204	Semiconductor Devices & Circuits	4 semester hours
ELEC C210	Analog Electric Circuit Analysis	4 semester hours
ELEC C230	Advanced Digital Electronics	3 semester hours
ELEC 284	Work Based Learning	4 semester hours
ELEC C272	Electronic Manufacturing	3 semester hours
ELEC C280	Basic Electrical Machines	4 semester hours
ELEC C240	Microcomputer Systems & Assembly Programming	4 semester hours

Total semester hours: 24-25