

Electronics Technology, AAS Degree

Plan 981

Purpose

The Electronics Technology AAS degree is designed to prepare students for a wide range of careers in design, installation, operation, manufacturing, service, and sales of electronic devices or systems.

Program Requirements and Special Conditions

Students must meet ESCC admission requirements. Students must also complete placement tests (or equivalent) in English and mathematics, and scores will be used for appropriate course placement. If students have deficiencies in English and/or mathematics, ESCC offers developmental and prerequisite courses to prepare students for the curriculum. New students should see a counselor and returning students their advisor for more information.

Program Learning Outcomes

Students will be able to:

- Identify common electronic components, devices, and symbols.
- Demonstrate an understanding of complex devices and technical topics.
- Demonstrate technical competence by earning a licensure or externally developed industry credential.

Program Curriculum and Suggested Sequence of Courses

1st Semester	Credits	Course Details
ENG 111 College Composition I	3	
ETR 113 D.C. and A.C. Fundamentals I	3	
ETR 167 Logic Circuits and Systems	3	
MTH 161 PreCalculus I	3	
SDV 101 or SDV 100 (Orientation to Engineering & Technologies or College Success Skills)	1	
Social Science Elective	3	See Note 1.
<i>Total Credits</i>	16	
2nd Semester	Credits	Course Details
ENG 112 or ENG 115 (College Composition II or Technical Writing)	3	
ETR 114 D.C. and A.C. Fundamentals II	3	
ETR 160 Survey of Microprocessors	4	
MTH 162 PreCalculus II	3	
Social Science Elective	3	See Note 1.
<i>Total Credits</i>	16	
3rd Semester	Credits	Course Details
General Elective	3	See Note 2.
<i>Total Credits</i>	3	
4th Semester	Credits	Course Details
ETR Elective	11	See Note 3.
Health Elective	1	See Note 4.
MTH 263 Calculus I	4	
<i>Total Credits</i>	16	
5th Semester	Credits	Course Details
ETR 214 or ETR 296 (Advanced Circuits and New Devices or On-Site Training)	2	
ETR Elective	11	See Note 3.
Humanities Elective	3	See Note 1.
<i>Total Credits</i>	16	
Total Credits For Program	67	

Notes and Additional Curriculum Options

1. Eligible courses are listed on page 75 of the 2019-2020 Catalog. Students should consult an advisor to choose the appropriate course(s).
2. The general elective may be satisfied with any course number of 100 or above. Students should consult with their faculty advisor regarding the selection of the most appropriate course.
3. The ETR elective requirement can be satisfied by any electronics courses with a course number of 100 or above or other college level courses when taken as part of a plan approved by the faculty advisor.
4. Students make take any course(s) with the HLT prefix. Veterans with documented military experience are waived from this requirement.

Certifications

Courses in this program may help students attain the following license(s) or certification(s):

- Amateur Radio Technician Licensure, Federal Communications Commission
- General Radiotelephone Operator License (GROL), Federal Communications Commission
- Basic Electricity and Electronics Certification, Cert *TEC*