

## Electronics Technology, Certificate

Plan 925

### Purpose

The Electronics Technology Certificate is designed to prepare students for employment as technicians in engineering, communication, and computer fields.

Students enrolled in the Certificate program may apply all credits earned to the college's AAS degree in Electronics Technology.

### 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:

- Analyze Direct Current (DC) and Alternating Current (AC) circuits using various circuit simplification and analysis techniques;
- Identify common electronic components, devices, and symbols.

### Program Curriculum and Suggested Sequence of Courses

1 <sup>st</sup> 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	
General Elective	3	See Note 1.
MTH 161 PreCalculus I	3	
SDV 101 or SDV 100 (Orientation to Engineering & Technologies or College Success Skills)	1	
<i>Total Credits</i>	16	
2 <sup>nd</sup> Semester	Credits	Course Details
ENG 112 or ENG 115 (College Composition I or Technical Writing)	3	
ETR 114 D.C. and A.C. Fundamentals II	3	
ETR 160 Survey of Microprocessors	4	
General Elective	3	See Note 1.
MTH 162 PreCalculus II	3	
<i>Total Credits</i>	16	
<b>Total Credits For Program</b>	<b>32</b>	

### Notes and Additional Curriculum Options

1. 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.