

Electronics Technology

Certificate (CERT)

Purpose

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

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:

- 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 st Semester	Credits	Course Options
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 4.
MTH 161 Precalculus I	3	See Note 1.
SDV 100 College Success Skills	1	
<i>Total Credits</i>	16	
2 nd Semester	Credits	Course Options
ENG 112 College Composition I	3	ENG 115
ETR 114 D.C. and A.C. Fundamentals II	3	
ETR 160 Survey of Microprocessors	4	
General Elective	3	See Note 4.
MTH 162 Precalculus II	3	See Note 2.
<i>Total Credits</i>	16	
Total Credits For Program	32	

Notes and Additional Curriculum Options

- Students who have previously completed MTH 163 have satisfied this requirement.
- Students who have previously completed MTH 164 have satisfied this requirement.
- Part-time students should consult their faculty advisors regarding appropriate course sequences.
- 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 general elective.