

Electronics Technology – Computer Technician Specialization, AAS Degree

Plan 981.01

Purpose

The Electronics Technology: Computer Technician Specialization AAS degree is designed to prepare students for working with computer hardware, repair, installation, and networking in entry-level employment.

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.
- Apply knowledge of common logic gates to the workforce setting.

Program Curriculum and Suggested Sequence of Courses

1 st 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	
2 nd Semester	Credits	Course Details
ENG 112 or ENG 115 (College Composition II or Technical Writing)	3	
ETR 160 Survey of Microprocessors	4	
Health Elective	2	See Note 2.
ITE 115 Introduction to Computer Applications and Concepts	3	
MTH 162 PreCalculus II	3	
<i>Total Credits</i>	15	
3 rd Semester		
General Elective	3	See Note 3.
<i>Total Credits</i>	3	
4 th Semester	Credits	Course Details
ETR 228 Computer Troubleshooting and Repair	3	
ETR Elective	4	See Note 4.
Information Technology Elective	3	See Note 5.
MTH 263 Calculus I	4	
Social Science Elective	3	See Note 1.
<i>Total Credits</i>	17	
5 th Semester	Credits	Course Details
ETR 214 Advanced Circuits and New Devices	2	
ETR 278 Computer Interfacing and Circuitry	4	
ETR Elective	4	See Note 4.

Information Technology Elective	3	See Note 5.
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. Students make take any course(s) with the HLT prefix. Veterans with documented military experience are waived from this requirement.
3. 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.
4. The ETR elective requirement may be satisfied by any electronics course numbered 100 or above or other college-level courses when taken as part of a plan approved by the faculty advisor.
5. The information technology elective requirement may be satisfied by courses with the following prefixes: ITD, ITE, ITN and ITP.