

Engineering & Electronics Technology

Program
Overview

AAS Degrees in Engineering & Electronics Technology: Computer Maintenance Track† and Electronics Track

somerset.kctcs.edu

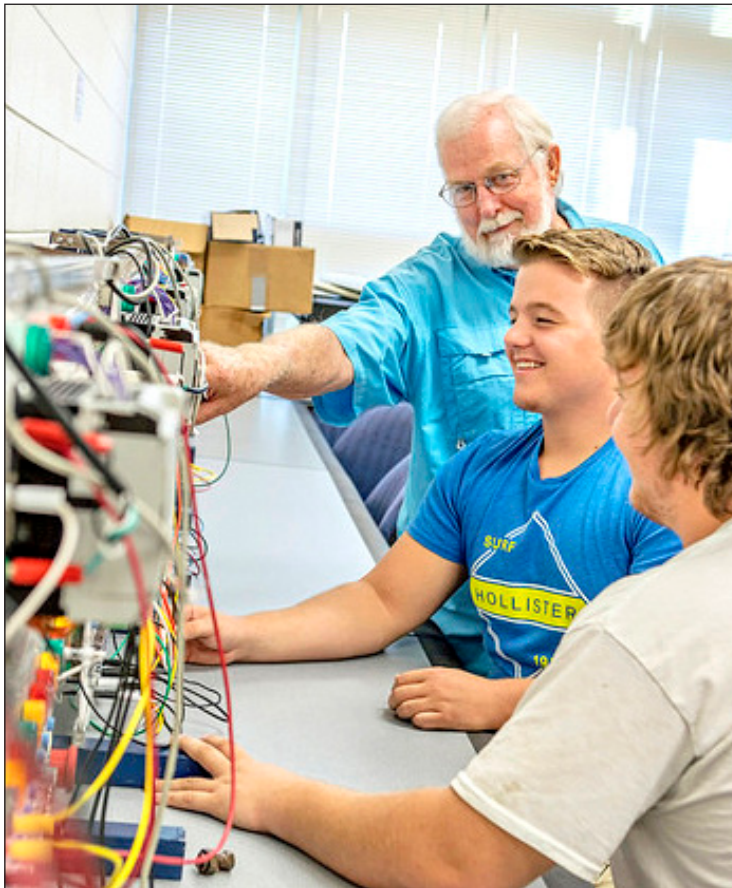
PROGRAM ADVISORS

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PROGRAM DETAILS

Engineering and Electronics Technology focuses on training, preparation, and employment of the student in the growing field of electronics. The study of theory, combined with laboratory exercises forms the foundation of the program. Engineering and Electronics Technology is designed to keep pace with this ever changing field. The program is reviewed semi-annually by representatives from the local area to ensure curriculum and training are in compliance with their needs.



First and second semester students will learn in-depth AC and DC theory, plus the internal workings of a computer through the study of digital electronics.

Third and fourth semester students will build plasma speakers and tesla coils. They will also construct PC's and other labs inspired by the students.

Engineering and Electronics Technology graduating students have an opportunity

to be placed in a variety of work environments, such as electronic manufacturing maintenance, home and business security systems installation and maintenance, computer hardware and software maintenance. Other employment opportunities include network administration, E-commerce (such as Amazon.com), and includes entrepreneurs that start their own business, such as being a subcontractor for Windstream or as an entrepreneur for a computer technologies business.

ENGINEERING & ELECTRONICS TECHNOLOGY CREDENTIALS:

CERTIFICATES

- Computer Maintenance Technician †
(17 credit hours)
- Communications Technician
(27 credit hours)
- Electronics Technician
(24 credit hours)
- Electronics Tester
(13 credit hours)
- Robotics and Automation Technician †
(33 credit hours)

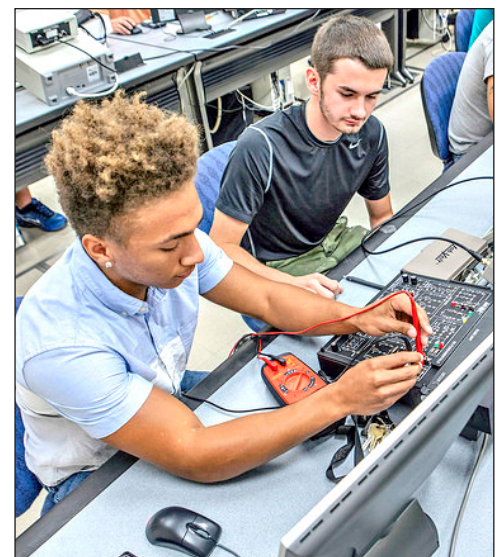
DIPLOMA OPTIONS

- Computer Maintenance †
(52 credit hours)
- Communications
(55 credit hours)
- Electronics
(51-53 credit hours)

ASSOCIATE IN APPLIED SCIENCE DEGREES

- Computer Maintenance Track †
(63-66 credit hours)
- Electronics Track
(62-64 credit hours)

† Only offered on SCC's Somerset Campus



PROGRAM LOCATIONS

This program is located on both the Somerset and Laurel campuses.



SOMERSET
COMMUNITY COLLEGE

Engineering & Electronics Technology

**Advising
Planner**
AAS Degrees in Engineering & Electronics Technology: Computer Maintenance Track[†] and Electronics Track

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REQUIRED COURSES FOR AAS DEGREES IN COMPUTER MAINTENANCE[†] and ELECTRONICS

GENERAL EDUCATION REQUIREMENTS (18-19 HOURS)		Credit
MAT 150	College Algebra <u>OR</u>	3
MAT 126	Technical Algebra and Trigonometry.	(3)
PHY 171	Applied Physics <u>OR</u>	3
	Other Natural Sciences with Consent of Program Coordinator . . (3)	
ENG 101	Writing 1	3
	Social/Behavioral Sciences	3
	Oral Communications	3
	Heritage/Humanities	3
CORE (24-25 HOURS)		
ELT 110	Circuits I	5
ELT 114	Circuits II	5
ELT 210	Devices I	4
ELT 120	Digital I	3
CAD 100	Introduction to Computer Aided Design <u>OR</u>	3
	Equivalent Course with Consent of Program Coordinator . (3-4)	
	Computer/Digital Literacy	3
ELT 289	Engineering and Electronics Technology Capstone Course	1
ELECTRONICS TRACK (20 HOURS)		
ELT 214	Devices II.	4
ELT 220	Digital II	3
	Technical Electives*	13

TOTAL HOURS FOR PROGRAM – 62-64

*Technical Electives: Any EET, ET, ELT, IMT, CIS, CIT, NIS, IT, ISM, CAD, ICT, MFG,
or any other course as approved by the program coordinator.

COMPUTER MAINTENANCE TRACK (21-22 HOURS)

[†] Only offered on the Somerset Campus

ELT 234	Computer Hardware Maintenance <u>OR</u>	3
IT 105	Computer Maintenance Essentials <u>OR</u>	(3)
ELT 105	Computer Maintenance Essentials	(3)
ELT 232	Computer Software Maintenance <u>OR</u>	3
IT 205	Advanced Computer Maintenance <u>OR</u>	(3)
ELT 205	Advanced Computer Maintenance	(3)
ELT 220	Digital II	3
NIS 160	Networking Core Technologies <u>OR</u>	3
IT 120	Cisco Internetworking I <u>OR</u>	(4)
CIT 160	Data Communications and Networking	(4)
	TECHNICAL ELECTIVES	9

TOTAL HOURS FOR PROGRAM – 63-66

SEMESTER COURSE LISTING

SEMESTER ONE (16 HOURS)

ELT 110
ELT 114
Social Interaction
Technical Elective

SEMESTER TWO (16 HOURS)

ELT 120
ELT 220
ELT 210
Heritage/Humanities
Technical Elective

SEMESTER THREE (17 HOURS)

Computer Literacy
PH 171
ELT 289
Writing I
Technical Elective
MAT 126 OR MAT 150

SEMESTER FOUR (14 HOURS)

ELT 214
CAD 100
Oral Communications
Technical Elective

TOTAL HOURS FOR PROGRAM – 63-66

Notes: