

Engineering & Electronics Technology

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

somerset.kctcs.edu

PROGRAM ADVISORS

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PROGRAM DETAILS

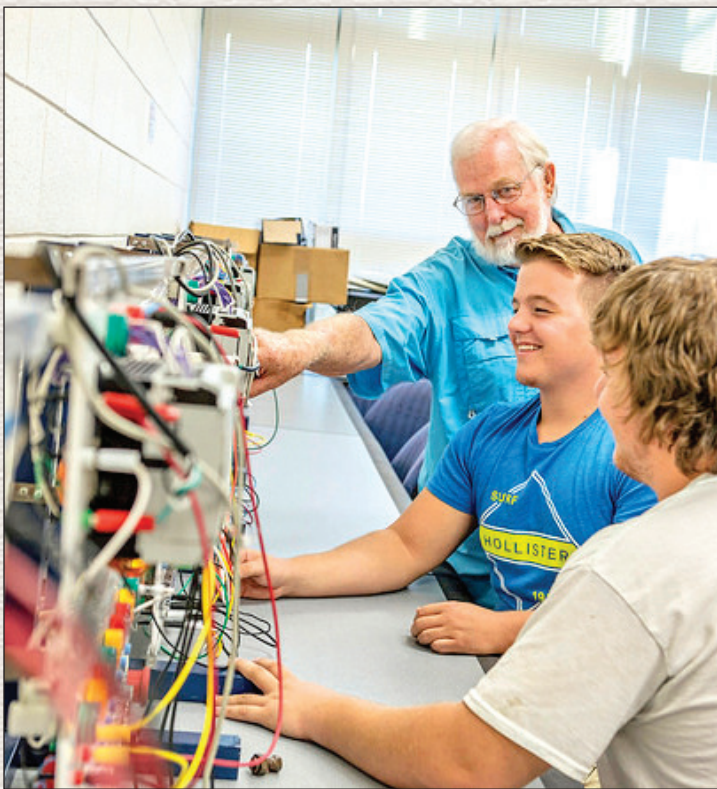
Engineering and Electronics Technology focuses on training, preparation, and employment of the student in the growing field of electronics. The study of theory, combined with laboratory exercises forms the foundation of the program. Engineering and Electronics Technology is designed to keep pace with 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.



PROGRAM LOCATIONS

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

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)

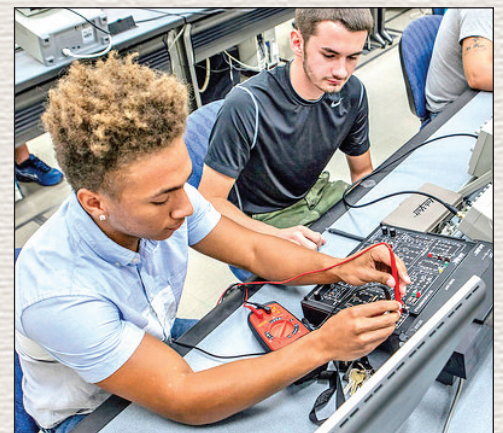
ASSOCIATE IN APPLIED SCIENCE DEGREES

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

† Only offered on the Somerset Campus

*A Federal Gainful Employment program

Learn more on SCC's website: [somerset.kctcs.edu/Academics/Programs of Study/Engineering and Electronics Technology](http://somerset.kctcs.edu/Academics/Programs%20of%20Study/Engineering%20and%20Electronics%20Technology)



Engineering & Electronics Technology

AAS Degree in Computer Maintenance Specialization and AAS Degree Electronics Specialization

REQUIRED COURSES FOR AAS DEGREES IN ELECTRONICS AND COMPUTER MAINTENANCE

GENERAL EDUCATION REQUIREMENTS (18-19 HOURS)

		Credit	Grade
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

Class (Alternative) Credit

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 <u>OR</u>		
MAT 150	(_____)	_____

SEMESTER FOUR (14 HOURS)

ELT 214	(_____)	_____
CAD 100	(_____)	_____
Oral Communications	(_____)	_____
Technical Elective	(_____)	_____

TOTAL HOURS FOR PROGRAM – 63-66

STUDENT _____ ID NO. _____ DATE _____

SIGNATURE _____ ADVISOR _____