

Electronic Engineering Technology

Computer Engineering Tcy Option

STANTON CAMPUS

Spring 2020

The Computer Engineering Technology Option combines the hardware and software principles a technician encounters working with microcomputers. Specialized courses cover the fundamentals of electrical and electronic circuit theory as well as device operation and computer circuits. Students will acquire skills in basic PC installation and routine maintenance, including troubleshooting and repair of microcomputer equipment and peripherals. Advanced skills in networking and security are also covered. An introduction to software through computer languages, such as C, C++, and assembly language are presented. Graduates can pursue career opportunities as computer technician, field service engineer, customer service representative, or computer network technician. The Computer Engineering Technology Option is a path through the Electronics Engineering Technology program and is accredited by the Engineering Technology Accreditation Commission of ABET, <http://abet.org>.

PROGRAM SPECIFIC ADVISEMENT STATEMENT

Courses - Semester 1

	Credits	Lecture	Lab
SSC 100 - First Year Seminar	1	1	0
ELC 125 - Electrical Circuits I	4	3	3
CEN 150 - Computer Assembly/Maint	4	3	2
MAT 180 - College Algebra	4	4	1
CEN 100 - Intro Elec & Computer Eng Tech	3	2	2

Courses - Semester 2

	Credits	Lecture	Lab
ENG 101 - Crit Thinking & Acad Writing	3	3	0
ELC 126 - Analog Electronics I	3	2	2
ELC 127 - Digital Electronics	4	3	3
CEN 180 - C/C++ Language Intro	4	3	2
MAT 190 - Precalculus	4	4	1

Courses - Semester 3

	Credits	Lecture	Lab
ELC 225 - Electrical Circuits II	4	3	3
ELC 227 - Microcontroller Fundamentals	3	2	3
ENG 102 - Composition and Research	3	3	0
ELC 226 - Analog Electronics II	3	2	2
ELC 205 - Computer Networks and System I	4	3	2

Courses - Semester 4

	Credits	Lecture	Lab
ELC 228 - Microcontroller Applications	4	3	4
PHY 205 - General Physics I	4	3	3
ELC 206 - Computer Networks & Systems II	3	2	3

Approved Electives

Group	Courses	Credits	Lecture	Lab
	ECO 111 - Macroeconomics	3	3	0
	ECO 122 - Microeconomics	3	3	0
	POL 111 - Political Science	3	3	0
	PSY 100 - Human Relations	3	3	0
	PSY 121 - General Psychology	3	3	0

SOC 111 - Sociology	3	3	0
COM 111 - Human Communications	3	3	0

*To complete program requirements, you must pass the above courses and earn at least **68 credits**. The number of courses and credits required for graduation may be more depending on your need for developmental education courses and the elective choices you make (if electives are a part of the program). Some programs also have college-level courses that you must take if you do not score at a certain level on the College Placement Test. If this applies to your program, the courses are listed at the top of the sequence sheet before the first semester of the course list.*