

# PROGRAMS

## COMPUTER ENGINEERING TECHNOLOGY - SECURITY (A 40160SE)

### Pathway Description

The curriculum is designed to prepare students through the study and application of principles from mathematics, natural sciences, and technology and applied processes based on these subjects.

Courses include mathematics, natural sciences, engineering sciences and technology.

Graduates should qualify to obtain occupations such as technical secretary, materials and technologies testing secretary, process implement technicians, engineering technicians, construction technicians and managers, industrial and technology managers, or research technicians.

### Computer Engineering Technology

This course of study that prepares the students to use basic engineering principles and technical skills for installing, servicing, and maintaining computers, peripherals, net or v, and microprocessor and computer controlled equipment. Includes instruction in mathematics, computer electronics and programming, prototyping, equipment and testing, system installation and testing, solid state and micro-instrumentation, peripheral equipment, and report preparation.

Graduates should qualify for employment opportunities in electronics technology, computer service, computer net or v, servicing, maintenance, programming, and other areas requiring knowledge of electronic and computer systems. Graduates may also qualify for certification in electronics, computers, or net or v.

### Associate in Applied Science Degree Program

		COURSE COURSE CREDIT		
		1	2	3
<b>First Semester Fall</b>				
C-1	Success Study Skills			
C-2	Introduction to Computers			
C-3	Circuit Analysis			
T-1	Introduction to Text or v			
C-4	Security Concepts			
	<b>Credit Hours</b>	<b>8</b>	<b>13</b>	<b>14</b>
<b>Second Semester Spring</b>				
C-5	Radio Electronics			
C-6	Wiring and Assembly			
S-1	Text or v I			
T-2	Wiring and Soldering			
	<b>Credit Hours</b>	<b>9-10</b>	<b>9</b>	<b>13-14</b>
<b>Third Semester Summer</b>				

COURSE	COURSE ID	CREDITS
INTRODUCTION TO DIGITAL ELECTRONICS	EE 100	4
INTERMEDIATE DIGITAL ELECTRONICS	EE 101	4
ADVANCED DIGITAL ELECTRONICS	EE 102	4
<b>Credit Hours</b>		<b>8</b>

COURSE	COURSE ID	CREDITS
COMPUTER ORGANIZATION	CS 101	3
PROGRAMMING	CS 102	3
ALGORITHMS	CS 103	2
OPERATING SYSTEMS	CS 104	2
NETWORKS	CS 105	2
SECURITY	CS 106	2
<b>Credit Hours</b>		<b>12</b>

COURSE	COURSE ID	CREDITS
COMPUTER ORGANIZATION	CS 101	3
ALGORITHMS	CS 103	2
OPERATING SYSTEMS	CS 104	2
NETWORKS	CS 105	2
SECURITY	CS 106	2
TECHNICAL ELECTIVE	EE 100	3
<b>Credit Hours</b>		<b>15</b>

