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## **Computer Technology – Certificate of Achievement**

*Units: 38*

(State Code: 21624; TOP Code: 093410; Academic Plan: C021624D)

The Computer Technology certificate of achievement prepares students for a career as a technician in digital electronics technology in all branches of the industry, from manufacturing to testing and service. The program gives students hands-on experience that can be extremely useful for students who decide to continue their education with a bachelor's degree in computer or electrical engineering.

### PROGRAM STUDENT LEARNING OUTCOMES

1. Describe the electrical and logical characteristics and operation of processors, memory, and control systems.
2. Design and draw schematics or a simple embedded system.
3. Design a simple motor control system.

### PROGRAM REQUIREMENTS

Requirements for the Computer Technology certificate of achievement may be met by completing 38 units of required courses with a grade of "C" or better.

### REQUIRED COURSES (38 UNITS)

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CIS 101	(FORMERLY CO SCI 101) INTRODUCTION TO COMPUTERS AND THEIR USES	3
CO TECH 002	INTRODUCTION TO ELECTRONICS	3
CO TECH 005	FUNDAMENTALS OF ELECTRONICS I	4
CO TECH 006	FUNDAMENTALS OF ELECTRONICS II	4
CO TECH 007	ELECTRONIC DEVICES	4
CO TECH 012	INTRODUCTION TO COMPUTER HARDWARE	4
CO TECH 014	A-PLUS CERTIFICATION PREPARATION	4
CO TECH 020	COMPUTER LOGIC AND ARITHMETIC	4
CO TECH 030	INTRODUCTION TO MICROPROCESSORS	4
CO TECH 036	DIGITAL DEVICES AND CIRCUITS	4