

ELECTRONICS TECHNOLOGY

Technology and Health Division

Certificate N0480

This one-year program covers the fundamentals of electronics technology. These core courses provide the necessary skills for those seeking entry-level employment as electronics technicians without areas of specialization. Also included is a course in customer-relations training.

Required Courses

Course Prefix	Course Name	Units
ELEC 11	Technical Applications in Microcomputers	3
ELEC 50A	Electronic Circuits - Direct Current (DC)	4
ELEC 50B	Electronic Circuits (AC)	4
ELEC 51	Semiconductor Devices and Circuits	4
ELEC 56	Digital Electronics	4
ELEC 61	Electronic Assembly and Fabrication	3
TECH 60	Customer Relations for the Technician	2
Total Units		24

Electronics and Computer Technology Website (<http://www.mtsac.edu/electronics>)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- employ polar and/or rectangular notation to determine the magnitude and phase shift of an unknown circuit parameter (voltage, current, impedance, and/or power).
- demonstrate proper use of electronic test equipment and associate measurement results with circuit behaviors in the laboratory.
- quantitatively determine unknown electrical parameters from given or measured values and use these results to assess or troubleshoot faults in circuit and system operation.
- communicate, both verbally and in writing, knowledge of electrical concepts and their application to the observed behaviors of circuits and systems.

Review [Student Learning Outcomes \(SLOs\)](#) for this program.