

ELECTRONICS AND COMPUTER TECHNOLOGY

(Also see Computer Information Systems and Computer Networking and Systems)

Department Chair: Majid Ghadiri, 847-376-7699 or
mghadiri@oakton.edu

This program provides knowledge of emerging technologies and hands-on skills to analyze, configure, design, test and trouble-shoot analog and digital circuits, install and service electronic equipment and systems, and install, operate and service modern electronic and data communication systems. Curriculum includes an introduction to AC/DC circuits and Ohm's law, digital and semiconductor devices and circuits, microprocessors, CAD, wireless applications, home automation technologies, and fast track A+ certification.

Students can receive an A.A.S. degree or can focus on technical courses in the following certificate programs: electronics technology; electronics computer technician; A+ computer diagnostic specialist; and home/office technology integrator.

Prerequisites: High school graduation or High School Equivalency Certificate; one year of high school algebra.

Program Learning Outcomes

This program provides knowledge of emerging technologies and hands-on skills. After program completion, students will be able to:

1. Analyze, configure, and design analog and digital circuits.
2. Test and troubleshoot analog and digital circuits.
3. Install and service modern electronic equipment and systems.
4. Install, operate and service modern electronic and data communication systems.
5. Communicate system issues and problem solving techniques.
6. Exhibit productive team behavior in working on electronic equipment and systems.