



There's a bright future for electronics technicians who today are doing the jobs engineers were doing twenty years ago. You can engineer a career in electronics—the fastest growing field in today's work place—with the knowledge you'll gain in the Electronics Engineering Technology program at Sinclair Community College.

What is the Electronics Engineering Technology (EET) program at Sinclair?

Accredited by the *Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (TAC/ABET)*, Sinclair's Electronics Engineering Technology program provides students with exciting opportunities to put engineering concepts into practice.

The curriculum balances instruction in theory with hands-on laboratory applications. A strong background in basics and in-depth study of advanced topics prepares students for careers in diversified areas, such as digital systems, microcontrollers, programmable logic controllers, analog systems, LabVIEW, fuel cells, and RFID.

The EET program prepares graduates for careers involving:

- Entry level technician jobs in various electronics and related industries.
- Further studies for entry into four-year BSEET programs. Several articulation agreements exist between Sinclair's EET program and four-year colleges and universities.

The program is TAC/ABET accredited and thereby assures quality education in modern state-of-the-art equipped laboratories and a highly qualified faculty.

All students have an opportunity to co-op in local industry as well as the Walt Disney University Program.

A majority of the EET courses are available online.

What are the facilities?

Sinclair's Electronics Engineering Technology program has 11 well equipped state-of-the-art laboratories, featuring the latest 16-bit and 32-bit microprocessor trainers, SLC-5/03 programmable controllers, laser and optoelectronics trainers, computer troubleshooting & repair systems.

What type of courses are featured in the program?

Students in the Electronics Engineering Technology program will take program specific courses in electrical circuits, analog electronics and instruments, digital systems, linear integrated circuits, microprocessors, and electronic drafting...along with courses in technical mathematics, technical communications, and technical physics. For hands-on experience in the real world, students may participate in cooperative education programs.

What are the career opportunities?

- Electronics Service Technician
- Computer Service Technician
- Field Service Technician
- Customer Service Representative
- Test Technician
- Bench Technician
- Calibration/Lab Technician
- Biomedical Electronics Technician
- Systems Test Technician
- R&D Assistant Technician
- Manufacturing Specialist

Program Outcomes

Entry level graduates with Associate of Applied Science degree in Electronics Engineering Technology from Sinclair Community College will be able to:

- Analyze electrical and electronic circuits using simulation software as well as traditional mathematical analysis.
- Use computers effectively for internet, analysis, applications, word processing, and technical report writing including use of various software packages such as OrCAD, Multisim, Quartus-II, and LabVIEW.
- Test, troubleshoot and repair electrical and electronic circuits using logical, deductive reasoning and an understanding of circuit behavior to make and test hypotheses about the causes of circuit malfunctions and then repair the circuit.
- Design, assemble, fabricate, modify, and interface basic electronic circuits for real world applications.
- Recognize and respect different personalities, display leadership qualities. Work effectively in multidisciplinary groups.
- Communicate to other technical professionals, managers, and the general public using good writing and speaking skills, communicate technical information through circuit diagrams, programming flowcharts, ladder logic diagrams, timing diagrams, and other graphical forms.

For more information:
Office of Admissions
Sinclair Community College
444 West Third Street
Dayton, OH 45402-1460
(937) 512-3000
1-800-315-3000 (Ohio and Indiana only)
www.sinclair.edu

Electronics Engineering Technology
Building 3, Room 3134
(937) 512-2570