

Central Ohio Technical College

Newark • Coshocton • Knox • Pataskala

Degrees that *Work*

The mission of Central Ohio Technical College is to meet the technical education and training needs of students and employers in the area.

Electronic Engineering Technology

Program Summary

The mission of the Electronic Engineering Technology Program at Central Ohio Technical College is to produce technically trained personnel who understand both the electronic aspects of communication, computer, computer network, and automated systems. These technicians will play a key role in many aspects of today's highly technical environment.

Electronic Engineering Technology awards the Associate of Applied Science Degree. The curriculum covers:

- Basic Electricity
- Basic Analog & Digital Circuits
- Computer Systems
- Computer Network Systems
- Data Communications Circuits & Systems
- Radio Frequency Circuits

Students learn in the classroom and in hands-on laboratories which use a mixture of actual components and computer simulations for microprocessors and Multisim software for circuit simulation. Engineering faculty can teach the practical application of electronic computer and wireless principles because they have had many successful years in this dynamic field. To accommodate working students, most courses are available during the evening, and students may enroll full or part-time.

Learning Outcomes

At the completion of the plan of study the student will be able to:

- Analyze basic DC, AC, analog and digital circuits at the component level;
- Use, maintain, and troubleshoot communication systems including wireless and hard wired systems;
- Use, set up, and maintain personal computers and computer network systems;
- Communicate orally and in writing with colleagues and customers;
- Solve and critically analyze problems individually and collaboratively;
- Demonstrate responsibility and professionalism and develop lifelong learning skills.

The Profession

Electronics is one of the fastest growing fields in our society. The invention of the transistor in 1948 has evolved to the development of today's unbelievably miniature and complex circuits. These circuits impact virtually every commercial, industrial, medical, and military activity. Computers, telephones, radio, television, radar, and sonar are used everywhere from everyday life to space exploration.

Career Opportunities/Salary

COTC graduates can expect to:

- Custom-build & maintain computers and computer networks
- Install cable & wireless data

communication systems

- Maintain office equipment – copy machines, telephonic and computer networks, elaborate security systems

The 2007 Graduate Survey of COTC students indicated very good employment in the Electronic Engineering Technology. The typical starting salary range for 2007 was \$40,000 - 42,999.

Important Student Characteristics

- Basic computer skills
- Detail-oriented mind
- Inquiring mind
- Interest in working in teams
- Logical mind
- Motivation to tinker

Transferability

Electronic Engineering Technology graduates are eligible to complete their technical bachelor's degree at several Ohio universities. Examples include Miami University, Ohio University's Bachelor's in Technical & Applied Studies program, and Kent State's Bachelor of Science in Technology. Also, Franklin University and the Mount Vernon Nazarene University offer 2+2 programs in Business Management and other majors.

Sample Curriculum

Course Title	Credit Hours
First Quarter	
Principles of Computing	1.00
Principles of Computer Programming	4.00
Introduction to CAD	2.00
PC Hardware: Troubleshooting and Maintenance	3.00
Digital Electronics I	4.00
Non-Technical Elective	3.00
<i>Total Credit Hours:</i>	17.00
Second Quarter	
Circuits I	4.00
Digital Electronics II	4.00
Local Area Networks	3.00
Trigonometry	5.00
<i>Total Credit Hours:</i>	16.00
Third Quarter	
Composition I	4.00
Circuits II	4.00
Digital Electronics III	4.00
Physics Mechanics	5.00
<i>Total Credit Hours:</i>	17.00
Fourth Quarter	
Composition II	4.00
Electronics I	4.00
Data Communications	4.00
Calculus	5.00
<i>Total Credit Hours:</i>	17.00
Fifth Quarter	
Public Speaking	3.00
Technical Writing	3.00
Communications Electronics I	4.00
Linear Integrated Circuits	4.00
Programmable Logic Controllers	4.00
<i>Total Credit Hours:</i>	18.00
Sixth Quarter	
Communications Electronics II	3.00
EET Capstone Design Course	3.00
Local Area Networks - Microsoft	4.00
Physics Heat, Light, Sound	3.00
Non-Technical Elective	5.00
<i>Total Credit Hours:</i>	18.00
<i>Program Total Credit Hours:</i>	103.00

How do I Start?

If you are a new student, you may apply online at www.cotc.edu. You may also contact the **Gateway - Office of**

Admissions for more information:

E-mail: cotcadmissions@cotc.edu

Newark Campus 740.366.9494

800.963.9275 Ext. 494

Coshocton Campus 740.622.1408

Knox Campus 740.392.2526

Pataskala Campus 740.964.7090

Returning COTC students should contact the

Gateway- Office of Academic Advising at 740.366.9422 or 800.963.9275 Ext. 422.

For specific questions regarding Electronic Engineering Technology contact:

- Gateway - Office of Academic Advising, cotcadvising@cotc.edu
- Richard Romei,* Assistant Professor, Electronic Engineering Technology, romei@cotc.edu

**Faculty Advisors can be reached during the academic year from September to June.*

Accreditation/Membership

Central Ohio Technical College is accredited by The Higher Learning Commission and is a member of the North Central Association.

Phone: 312.263.0456

www.ncahigherlearningcommission.org

COTC is also a member of the American Association for Higher Education, the American Association of Community Colleges, the American Council on Education, the American Technical Education Association, Inc., the Ohio Association of Two-Year Colleges and the Ohio College Association.



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