

# Electronics & Computer Engineering Technology

Associate Degree • Delaware Technical & Community College • [www.dtcc.edu](http://www.dtcc.edu)

*This program offers extensive training in analog and digital electronics, with emphasis on applications and analysis relating to microprocessor, industrial control and communication systems. The students are also skilled in computer simulation, robotics, programmable logic controllers, networking, and wireless communications. This program integrates lecture, demonstration, laboratory and hands-on activities into all course work.*

## What You'll Learn...

- Testing, developing, troubleshooting, and repairing of circuits and systems
- Applications and operation of instrumentation and test equipment
- Automated controls using programmable logic controllers and virtual instrumentation
- Robotic and microcontroller programming and applications

## What You'll Earn...

- High-tech education in modern computerized laboratories
- Skills necessary to obtain work as a professional engineering technician
- Technical knowledge required in today's job market
- Competitive salary and career growth opportunities

## What You Can Do...

- Electronics engineering technician
- Assistant engineer
- Wireless technician
- Computer network technician
- Field-service technician
- Quality control technician
- Biomedical technician
- Avionics
- Consumer electronics
- Telecommunications technician

# ELECTRONICS & COMPUTER ENGINEERING TECHNOLOGY

Career opportunities for the electronics graduate include engineering, robotics, avionics, communications, computer electronics, quality control, networking, microwave filters and manufacturing.

## PROGRAM FACTS

- 97% of graduates are employed in their career choice
- State-of-the-art labs

## OPTIONS

**Microcomputer Systems Service & Repair Studies** for students who wish to focus on entry level computer repair work with emphasis on the CompTIA A+ certification. The diploma completes the first year of the AAS program.

**Analog Electronics Studies** for students whose current job requires a specific focus on linear systems and communications.

**Microcomputer Electronic Studies** for students whose current job requires a specific focus on digital electronics and microprocessor-based systems.

## DELAWARE TECH

Delaware Technical & Community College

Jack F. Owens Campus

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Georgetown, DE 19947

(302) 856-5400

[www.dtcc.edu](http://www.dtcc.edu)

[www.dtcc.edu/owens/electronics](http://www.dtcc.edu/owens/electronics)

# REQUIRED TECHNICAL COURSES

|         |  |
|---------|--|
| ELC 122 | Electronic Devices & Circuits I        |
| ELC 123 | Electronic Devices & Circuits II       |
| ELC 130 | Digital Electronics I                  |
| ELC 132 | Microcomputer Systems Service & Repair |
| ELC 222 | Network Theorems & Analysis            |
| ELC 230 | Industrial Electronics                 |
| ELC 232 | Introduction to Microprocessors        |
| ELC 110 | Technical Computer Applications        |
| ELC 223 | Electronic Communications              |
| ELC 233 | Microprocessor Applications            |
| ELM 215 | Industrial Controls (PLCs)             |
| PHY 205 | Physics I                              |
| CEN 180 | C Language Introduction                |

## OTHER COURSES

|         |                                   |
|---------|-----------------------------------|
| ECO 111 | Macroeconomics                    |
| ENG 121 | Composition                       |
| ENG 122 | Technical Writing & Communication |
| MAT 181 | Algebra & Trigonometry I          |
| PSY 121 | Psychology                        |

## HOW TO BEGIN –

1. Obtain, complete, and submit an Application for Admission with a \$10 non-refundable fee to the Admissions Office. Make check payable to Delaware Technical & Community College. Applications are available via the Web ([www.dtcc.edu/admissions](http://www.dtcc.edu/admissions)), by phone or mail, or from a high school counselor.
2. Develop a financial plan to identify resources, such as financial aid, SEED, and other scholarships, to help pay for college.
3. Request that your official high school, GED, and/or college transcript be sent immediately to the Admissions Office.
4. Participate in the college testing and placement program, if required. Official scores from SAT/ACT tests or previous college credit may satisfy this requirement.
5. Meet for advisement to begin an educational plan and select courses for registration.