

Electronics/Electrical Engineering Technology

MATH/SCIENCE CONCENTRATION

This option is a pathway for DTCC graduates who seek a baccalaureate degree and career in computer engineering, electrical engineering, computer engineering technology or electrical engineering technology. The curriculum concentrates on electrical engineering fundamentals, mathematics, science and written and oral communication to prepare you for upper division course work.

As a graduate of Delaware Tech, you will have earned an associate degree in Electronics and Computer Engineering Technology. This option will also allow you to go directly into industry as an electronics or electrical engineering technician. You would be prepared to immediately begin technical assignments in manufacturing and assembly operations, research and development laboratories, service organizations or various government operations.

You'll Learn

- DC and AC circuit theory and applications
- Analog and digital circuits
- Microprocessor programming and interfacing
- Computer techniques for circuit analysis and design
- Programming in C/C++ language
- Additional knowledge, skills and abilities essential to your success on the job and in your transfer to another institution

You'll Earn

- An associate degree which will provide a pathway to a bachelor's degree program
- A starting salary which is typically among the highest paid to associate degree holders
- The flexibility to choose among a variety of specialties including manufacturing, maintenance, research, design and development
- The ability to advance to higher level positions due to your strong background
- Local and national employment opportunities
- Strong status in the job market – this field is growing and changing rapidly, therefore, trained specialists are constantly in demand

You'll Succeed

- More than half of all new jobs created require education beyond high school.
- Employees with degrees have better chances for promotion.
- Associate degree holders generally earn 30 percent more than high school graduates (according to the U.S. Department of Commerce, Census Bureau).
- College credit or advanced placement may be given for relevant work experience.

Get in, Get smart, Get going. . .

You can enroll in the Math/Science Concentration of the Electronics/Electrical Engineering Technology Program as a full- or part-time student. Day and evening courses are offered. The length of time required to complete an associate degree depends on the number of courses you take each semester. Some students may need refresher courses at the basic or pre-tech level; others may receive transfer credit or credit for work experience.

Delaware Tech operates on a semester system with new sessions beginning in late August and mid-January, plus summer sessions beginning at the end of May and in mid-June. You can start taking courses any semester or summer session; however, all technical courses may not be offered every session. Counselors and advisors are available to help you schedule your courses.

TECHNICAL COURSES

Analog Electronics I covers the fundamentals of applied electronic circuits including diodes and transistors.

Analog Electronics II studies amplifier frequency response, decibels, Miller effect, Miller's theorem, operational amplifier circuits and various forms of communications systems.

C/C++ Programming Language emphasizes good programming style, development and documentation using C/C++ language.

Digital Electronics I & II study basic to advanced digital logic.

Introduction to Circuit Analysis studies the analysis of current, voltage, power in series, parallel, series-parallel and non series-parallel DC circuits.

Introduction to Microprocessors is an overview of programming and interfacing microcontrollers.

Network Analysis studies AC circuits with an emphasis on applied use of fundamental theorems.

SUPPORT COURSES

Calculus I, II, III

Chemical Principles I

Composition

Humanities Electives (2)

Macroeconomics

Microeconomics

Physics I w/Calculus

Technical Writing & Communication

TO APPLY FOR ADMISSION

1. Obtain a College Admissions Application by calling (302) 283-3100. Admission applications are also available online at www.dtcc.edu/all/forms/. Complete and return the application to the Stanton campus with a \$10 fee.
2. Request that your high school and/or college transcripts be sent to the Stanton Admissions Office.
3. Arrange to take the Computerized Placement Test (CPT) *unless you have already completed college-level math and English courses with a "C" grade or better*. The CPT is administered by both the Stanton (302-454-3954) and Wilmington (302-571-5343) Admissions Offices and is used to determine appropriate course placement.
4. Meet with a Delaware Tech counselor to discuss your CPT results and select your course schedule.
5. Remember to apply and register early for the best selection of courses.