

Electromechanical Engineering Technology

Electromechanical Engineering

www.dtcc.edu • Delaware Technical & Community College

The Electromechanical Engineering Technology combines electricity, electronics, and mechanical subjects. When you graduate, you will have skill and background in electricity, motor controls worked by fluids, electronics, and mechanical devices. You will find this program valuable if you want to maintain and repair robots, production equipment, or motor control circuits; build electrical, electronic, and mechanical devices; or test and evaluate pneumatic/hydraulic circuits

What You'll Learn...

- Electricity and digital electronics
- Pneumatics and hydraulics
- How to design mechanisms and how they work
- Programmable Logic Controllers (PLCs)
- CAD (Computer-Aided Drafting) graphics
- Computer Numerically Controlled (CNC) machines
- Robotic controls

What You'll Earn...

- A competitive salary with good opportunities for advancement
- Employment opportunities in plant maintenance, electromechanical repair, electrical design, and robotic operations in industrial facilities, schools, or hospitals
- The credentials to advance in a position
- Strong status in the job market - Electromechanical Engineering graduates are in demand

Why You'll Succeed...

- More than half of all new jobs created require education beyond high school
- Employees with degrees tend to have a better chance for promotion*
- Associate degree holders generally earn more than high school graduates*
- College credit or advanced placement may be given for relevant work experience
- Many credits from an Associate Degree can be applied toward a Bachelor Degree

**Statistics from U.S. Department of Commerce, Bureau of Census*

Electromechanical Engineering

You can enroll in the Electromechanical Engineering Technology on either a full-time or part-time basis. 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 terms beginning in late August and mid-January, plus summer terms beginning at the end of May and in mid-June. You can start taking courses any semester or summer term; however, all technical courses may not be offered every term.

Required Technical Courses

Introduction to Circuit Analysis covers the basics of current, voltage, and power in series, parallel, and series-parallel DC circuits.

CAD provides a hands-on computer-aided drafting course in which the individual will receive a comprehensive background in two- and three-dimensional CAD.

Modern Manufacturing Techniques provides a study of modern manufacturing techniques, including a discussion of hand tools, precision measuring tools, material identification and selection, identification and uses of machine tools/equipment through hands-on training.

Introduction to Computers & Technology provides an introduction to the computer as used in engineering technologies.

Mechanisms & Design covers the basic operating principles of gears, gear trains, linkages, cams, belts, chains, and other mechanisms.

Industrial Electricity is an overview of three phase circuits, protective devices, transformer connections, motors, motor starters, and an introduction to solid state control and programmable controllers.

Programmable Logic Controls discusses modern control processes including programmable controllers, numerical control, bar code readers, static logic control and an introduction to the field of robotics.

Fluid Power covers hydraulic and pneumatic systems for the transfer and control of power and an introduction to the electrical, pneumatic and hydraulic control of these power systems.

Related Courses

Algebra & Trigonometry I & II
Composition
Technical Writing & Communication
Critical Reading & Thinking

Oral Communication
Digital Electronics I
Physics
Social Science Electives
Internship

Getting Started

1. Obtain an application by calling (302)857-1020. Complete and return to Terry Campus with a \$10 application fee.
2. Take the College Placement Test (CPT) *unless college-level math, reading, and English courses have been completed with a "C" grade or better*. The CPT will determine appropriate placement and is scheduled by the Admissions Office.
3. Request that high school and/or college transcripts be sent to the Admissions Office.
4. Meet with a Delaware Tech counselor to discuss CPT results.
5. Meet with advisor to plan schedule.
6. Apply and register early for the best selection of courses.

Standards of Excellence

❖ Over 90% of technology graduates are employed in their career field