

Mechanical Engineering Technology

As a mechanical engineering technician, you will be an integral part of the engineering team. You will combine your knowledge of math, science and engineering theories with current engineering practices to help solve design and development problems. You will apply state-of-the-art design and testing techniques to a wide variety of products and projects.

Delaware Tech's Mechanical Engineering Technology Program is an associate degree program which has met the rigorous criteria of the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (TAC-ABET). Employers and colleges nationwide recognize the importance of this standard of quality.

You'll Learn

- To design, develop, test and operate a wide variety of mechanical systems
- Computer-aided drafting and other computer applications for engineering technology
- Manufacturing processes including computer numerical control
- The properties, testing, and applications of a wide range of engineering materials
- Design of fluid transfer and power hydraulic systems
- Additional knowledge, skills and abilities essential to your success on the job

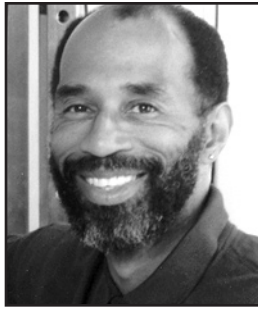
You'll Earn

- A competitive starting salary with excellent potential to move up to management positions
- The option to choose among several fields including manufacturing, materials, testing, power generation, energy conversion, machine design and automation
- The flexibility to specialize in sales, design, production, manufacturing, maintenance or testing
- The credentials to advance to a supervisory position

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.
- Many credits from an associate degree can be applied toward a bachelor's degree.

Get in, Get smart, Get going. . .



You can enroll in the Mechanical Engineering Technology Program 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 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

Introduction to Mechanical Engineering

Technology focuses on design process and study activities using engineering graphics, mathematics, and technical science with an emphasis on programming in BASIC.

Engineering Graphics/CAD develops basic drafting skills with an emphasis on computer aided work.

Modern Manufacturing Techniques covers basic machining practices, arc welding, numerical control, metrology, and safety.

Advanced Manufacturing Techniques features specialized machining and welding applications as well as the processing of a wide variety of materials.

Statics is an analytical study of the effects of forces acting on a body at rest.

Computer Applications provides an understanding of the use of a wide range of software.

Strength of Materials analyzes stress and strain in machine components and the selection of structural elements.

Fluid Mechanics deals with physical properties of fluids, pressure, Bernoulli's equation, flow measurement, pump and fan characteristics, and open-channel flow.

Dynamics covers the motion of particles and rigid bodies including tangential, normal, and Coriolis acceleration.

Machine Design examines a wide variety of design principles of machine elements.

Electromechanical Systems includes elementary circuit laws and theorems, the study of the operation and control of AC and DC motors, as well as an introduction to servo-mechanisms.

Fluid Power studies hydraulic and pneumatic systems for the transfer and control of power.

Material Science explores various properties of metals, ceramics, plastics and other solids.

Engineering Project involves small groups in the complete design process from inception to final drawings, cost analysis and reports.

SUPPORT COURSES

Composition

Technical Writing & Communication

Algebra & Trigonometry I, II

Calculus I

Physics I, II

Two Approved Humanities Electives

TO APPLY FOR ADMISSION

1. Obtain an admission application by calling (302) 888-5288. Admission applications are also available online at www.dtcc.edu/prospective. 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 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 the Admissions Office (302) 454-3954 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.