

Design Engineering Technology-Mechanical

Associate Degree • Delaware Technical & Community College • www.dtcc.edu

This program combines mechanical design theory with hands-on manufacturing experience to prepare students for a career in mechanical engineering technology and/or manufacturing industries. An intensive program of study in computer-based design, material properties and processing, conventional and computer-based manufacturing technologies, and technical support classes will provide you with the necessary education and skills to work as a professional in an exciting and growing industry. This program is accredited by the Technology Accreditation Commission of ABET, <http://www.abet.org>.

What You'll Learn...

- How to develop and present your mechanical design ideas using Computer-Aided Design and Solid Modeling software
- Computer-Aided Manufacture (CAM)
- Computer Numerical Control (CNC)
- Rapid Prototyping
- The basics of machining, casting, welding, and molding technologies and processes
- The standards and codes for mechanical design and documentation
- Structural analysis and material properties related to mechanical design

What You'll Earn...

- Excellent employment and advancement opportunities in a variety of fields
- Competitive annual salaries
- Credits to transfer to a four-year program in engineering technology at numerous colleges and universities

What You Can Do...

- Mechanical design technician
- Machine parts designer
- Mechanical Designer CAD
- Manufacturing technician
- Technical sales representative
- Project Manager

DESIGN ENGINEERING TECHNOLOGY–MECHANICAL

Develop a broad knowledge of basic engineering principles and applications in manufacturing, machining, production planning, and computerized design & documentation. Hands-on design and fabrication projects provide experience in the technologies used in today's manufacturing sector. Support courses in computers, mathematics, physics, statics, strength of materials, technical writing, and social sciences give a broad academic background for further studies and/or career advancement. Transfer opportunities available. You can enroll on either a full-time, part-time, day or evening basis.

PROGRAM FACTS

- Near 100% job and /or further education placement
- Up-to-date labs and classrooms
- Latest AutoDesk software, including AutoCAD and Inventor, operating on new computers
- CNC lathe, mill and router with MasterCAM software
- 3-D printer
- Work experience credit available
- Scholarship opportunities
- Classes to fit your schedule – day and evening courses available

OPTIONS

- A diploma is available in Design Engineering Technology Studies

DELAWARE TECH

Delaware Technical & Community College
Jack F. Owens Campus
P.O. Box 610
Georgetown, DE 19947
(302) 856-5400
www.dtcc.edu

REQUIRED TECHNICAL COURSES

- AET 123 Drafting & Design
- CET 256 Statics & Strengths of Materials
- EDD 171 Intro to CAD Using AutoCAD
- EDD 271 Advanced CAD Using AutoCAD
- EDD 272 Solid Modeling
- EDT 128 Machine Trades Blueprint Reading
- EDT 152 Engineering Design I
- EDT 252 Engineering Design II
- IET 209 Production Planning & Control
- MET 123 Modern Manufacturing Techniques I
- MET 125 Advanced Manufacturing Techniques
1 Technical Elective

OTHER COURSES

- ENG 121 Composition
- ENG 122 Technical Writing & Communication
- IET 150 Computer Applications
- MAT 181 Algebra & Trigonometry I
- MAT 182 Algebra & Trigonometry II
- PHY 205 General Physics I
- RDG 120 Critical Reading & Thinking*
2 Social Science Elective

*Needed for graduation except where exempted by a score of 93 or above on the college placement test.

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), 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.