

Engineering Technology: CAD Option

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

This program is structured to provide a strong foundation in Computer-Aided Design (CAD) principles and software as applied to architectural, civil and mechanical technologies. Exposure to the core principles in these disciplines is combined with the opportunity to pursue a deeper understanding in one or more areas through elective courses. Intensive instruction in computer-based design along with associated technical support classes will provide you with the knowledge and skills needed to begin a successful career in these challenging and growing industries.

What You'll Learn...

- How to develop and present your design ideas using Computer-Aided Design (CAD) and parametric modeling
- Computer-based 3-D solid modeling software
- Rapid prototyping
- The standards and codes for computer-generated engineering drawings
- Architectural, civil, mechanical, and electronics engineering design principles

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...

- CAD system operator
- Engineering technician
- Technical sales representative
- Product and engineering documentation

ENGINEERING TECHNOLOGY: CAD OPTION

You will learn how to develop and present design ideas using 2-D and 3-D Computer Aided Design (CAD) and parametric solid modeling and building formation modeling (BIM) software. The program covers the basic principles, standards and codes for computer generated engineering drawings in the fields of architecture, civil, mechanical, and electronics engineering design. Graduates of this program will be prepared to translate ideas, sketches, calculations, and specifications into accurate 2-D and 3-D drawings. Support courses in computers, mathematics, technical writing, and social sciences give the graduate the broad academic background for further studies and/or career advancement. You can enroll as a full-time or part-time student in the day or evening.

PROGRAM FACTS

- Near 100 percent job and /or further education placement
- State-of-the-art labs and classrooms
- Latest AutoDesk software, including Inventor and Revit Architecture
- Work experience credit available
- Scholarship opportunities
- Classes to fit your schedule – day and evening courses available

OPTIONS

- A diploma is available in Engineering Design Studies

DELAWARE TECH

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

REQUIRED TECHNICAL COURSES

AET 123 Drafting & Design
AET 125 Architectural Engineering/Design
CET 251 Topographic Drafting
EDD 171 Intro to CAD Using AutoCAD
EDD 271 Advanced CAD Using AutoCAD
EDD 272 Intro to 3-D CAD
EDT 152 Engineering Design
CET 144 Surveying Principles
5 Technical Electives

OTHER COURSES

IET 150 Computer Applications *or*
ELC 110 Technical Computer Applications
ENG 121 Composition
ENG 122 Technical Writing & Communication
MAT 181 Algebra & Trigonometry 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.