Computer Aided Design Technology—Mechanical Design Option
Associate of Applied Science Degree

Career and Technical Program
The Computer Aided Design Technology program offers students the opportunity to learn skills required by today’s industries. Students can pursue a two-semester Intermediate Technical Certificate, a four-semester Advanced Technical Certificate, and a four-semester Associate of Applied Science Degree. CADT—Mechanical places heavy emphasis on design principles and computer aided design applications. Portions of the Associate of Applied Science Degree options may transfer to various four-year institutions. Students entering the A.A.S. degree program should be prepared to complete an A.A.S. math requirement and ENGL-101 (or higher) during the first year of the program before they may continue. Placement in specific English and math courses is determined by the college assessment test. Prospective students who do not meet the initial eligibility requirements for a career and technical limited-enrollment program will need to take selected courses to receive necessary skill building prior to entering the program.

Current industry professionals may enroll in a single course on a space-available basis and with instructor permission.

Program Requirements
In addition to the specific Computer Aided Design Technology courses, students must take a minimum of 15 credits of A.A.S. general education courses as specified in the program below.

First Semester
- CADT-104M CAD Graphics I-Mechanical Applications 2
- CADT-106M CAD Graphics II-Mechanical Applications 2
- CAOT-164 Computer Fundamentals for Technology Programs 1
- CAOT-165 Productivity Software for Technology Programs 1
- COMM-101 Introduction to Speech Communication 3
- ENGL-101 English Composition 1 3
- MACH-153 Precision Measuring 1
- MCTE-105 Technical Math for Machining and Computer Aided Design Technology (or higher) 3

Semester Total 16

Second Semester
- ATEC-117 Occupational Relations and Job Search 1 2
- CADT-105 Descriptive Geometry 3
- CADT-109 Basic Mechanical Design 4
- CAOT-166 Living Online for Technology Programs 1
- MACH-201 Design for Manufacturing 1
- MATH-143 College Algebra (or higher) 1 3-5

Semester Total 14-16

Third Semester
- CADT-250 SolidWorks I 2
- CADT-252 SolidWorks II 2
- CADT-253 Industrial Processes 3
- CADT-255 Geometric Dimensioning and Tolerancing 3
- ENGL-202 Technical Writing 3
- MACH-231 Computers and Machines 3

Semester Total 16

Fourth Semester
- CADT-254 Power Transmission 3
- CADT-257 Advanced Mechanical Design 4
- CADT-261 Statics and Strengths of Materials 3
- _______ A.A.S. Social and Behavioral Ways of Knowing 2 3
- _______ A.A.S. Institutionally Designated 2 3

Semester Total 16
Program Total 62-64

Notes:
1 Satisfies A.A.S. degree general education requirement.
2 Select from the A.A.S. degree requirements listed on page 50.