Computer-Aided Design is developed for students interested in a career in the drafting and engineering fields of mechanical and civil design. Using state-of-the-art computers and design software, students learn the drafting and engineering concepts required to generate high-quality industry standard drawings. Computer-Aided Design is part of the Advanced Manufacturing Academy. Senior students have the opportunity to engage in advanced-elective course work in any of the manufacturing areas: Computer-Aided Design, Precision Machining, Robotics & Automation, and Welding. This opportunity provides students with a more diverse skill set to enter a career in manufacturing.

Program Highlights:
- Visualize and construct 3D models and prototypes for mechanical designs
- Find creative solutions to complex engineering challenges
- Use the same advanced software and modern equipment as professional engineers

The Program Focuses on the Following State Approved Courses:
- Engineering Design
- Principles of Manufacturing
- Engineering Logic
- Engineering Design (Engineering Principles)

COST-FREE COLLEGE CREDIT OPPORTUNITIES
College Credit Plus through Owens Community College
- CAD 117: Introduction to Board & CAD Drafting (3 Credit Hours)
- CAD 210: Introduction to 3D Modeling-CAD 1A (3 Credit Hours)
- CAD 215: Advanced 3D Modeling-CAD 2A (3 Credit Hours)

Career Technical Assurance Guides (CTAGs)
- CTS001: OSHA 10-Hour Safety (1 Credit Hour)
- CTEGT001: Introduction to Engineering (1 Credit Hour)
- CTEGT002: Engineering Graphics (3 Credit Hours)

INDUSTRY-RECOGNIZED CREDENTIALS (POINT VALUES)
- AutoCAD User (4 Points)
- Autodesk Inventor Certified User Certification (4 Points)
- Certified Solid Works Associate (CSWA) (4 Points)

OHIO MEANS JOBS OCCUPATIONS LISTED ACCORDING TO TYPICAL SALARY

<table>
<thead>
<tr>
<th>OCCUPATION TITLE</th>
<th>TYPICAL SALARY-BOTTOM 10%</th>
<th>TYPICAL SALARY-MEDIAN</th>
<th>TYPICAL SALARY-TOP 10%</th>
<th>TYPICAL EDUCATION</th>
<th>ANNUAL JOB OPENINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Industrial Engineering Technologists and Technicians*</td>
<td>$35,380</td>
<td>$52,090</td>
<td>$78,720</td>
<td>Associate’s Degree</td>
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<td>Mechanical Engineering Technologists &amp; Technicians*</td>
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<td>$53,180</td>
<td>$78,950</td>
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<tr>
<td>Civil Engineering Technologists and Technicians</td>
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<td>$60,780</td>
<td>$82,250</td>
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<td>$80,300</td>
<td>$122,360</td>
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<td>Mechanical Engineers*</td>
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<td>$81,290</td>
<td>$124,570</td>
<td>Bachelor’s Degree</td>
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<td>Industrial Engineers*</td>
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<td>$82,590</td>
<td>$125,140</td>
<td>Bachelor’s Degree</td>
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<tr>
<td>Architectural and Engineering Managers*</td>
<td>$93,160</td>
<td>$134,140</td>
<td>$194,610</td>
<td>Bachelor’s Degree</td>
<td>480</td>
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</tbody>
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JOB OUTLOOK COMPILED BY OHIO MEANS JOBS AS OF SEPTEMBER 2021; VISIT OHIOMEANSJOBS.COM FOR MORE INFORMATION.

Instructor: Amir Horani 419.666.1120 Ext. 1406 ahorani@pentacc.org
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PENTA CAREER CENTER

TECHNICAL CAREERS
- CAD Technician
- Structural Detailer
- Surveyor
- Architectural Detailer
- Architectural Illustrator
- CAD Program Trainer
- Specification Writer
- Construction Project Manager
- Project Estimator

PROFESSIONAL CAREERS
- Architect
- Structural Engineer
- Mechanical Engineer
- Civil Engineer
- Chemical Engineer
- Biomedical Engineer
- Industrial Engineer
- Industrial Product Designer
- Landscape Architect
- Interior Designer
- Teacher
- Urban Planner

ENTRY-LEVEL CAREERS
- Manufacturing Sales Representative
- Draftsman
- CAD Technician
- Revit Technician
- 3D Modeler
- Interior Design Assistant
- Electrical Draftsman
- Construction & Building Inspector
- Architectural Project Assistant
- Mold Designer

ACADEMICS

PROFESSIONAL SKILLS

EXPERIENCES

PASSION

COMPUTER-AIDED DESIGN