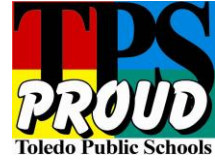




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## ENGINEERING DESIGN/CAD AT BOWSHER HIGH SCHOOL

**Owens Community College Major:** CAD Technology

**Program Length:** 4 semesters      **Credits:** 60-61

### PROGRAM INFORMATION

This program is designed to prepare students to enter the high demand world of Computer Aided Design (CAD) Technology. Students use their creativity as they bring ideas to life. As CAD technicians they work hand-in-hand with scientists, engineers, architects and designers. CAD technicians prepare detailed CAD drawings based on rough sketches, specifications and calculations. They are an integral part of any industrial project.

### JOB OPPORTUNITIES FOR GRADUATES

There are many opportunities for midrange level employment in mechanical, electrical, solar, architectural, civil, surveying and land and urban development sectors of the marketplace. The scope, complexity and depth of these midrange level positions allow the possibility of more advancement than the entry level CAD Certificate.

### SALARY

The U.S. Department of Labor, Bureau of Statistics for the Toledo area, reports an hourly wage for positions such as those listed above at \$24.97.

### TECH PREP SCHOLARSHIP

Owens Community College offers Tech Prep scholarships to graduating high school seniors who have participated in a Tech Prep career pathway within the Greater Northwest Ohio Tech Prep Consortium. The maximum award is \$2,000 total (\$1,000 per year) or \$500 per semester for four semesters to cover tuition, fees, and an allotment for books **that are not covered** by other financial aid, such as Federal Pell Grant, as long as the student maintains eligibility. This scholarship does not pay for supplies, lab fees, course fees, and other institutional fees. Students must earn a 2.5 on a 4.0 GPA scale by the end of the 7<sup>th</sup> semester of high school. They must enroll at Owens, full time, for the fall semester immediately following high school graduation, and declare an associate degree program related to the chosen high school Tech Prep pathway.



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**1ST SEMESTER**

**CAD 117 Intro to Board & CAD Drafting** Credits: 3  
 CAD 130 3D Modeling for Manufacturing Credits: 3  
 MTH 143 Applied Industrial Mathematics Credits: 3  
 STM 105 Technology in Society Credits: 2  
 ENG 111 Composition I\* Credits: 3

**2ND SEMESTER**

CAD 132 CAD Drafting & Design Credits: 2  
 CAD 144 GD & T Credits: 2  
**CAD 210 Intro to 3D Modeling-CAD 1A** Credits: 3  
 CAD 230 Industrial CAD I Credits: 3  
 CAM 160 Machining I Credits: 2  
 IST 131 Computer Concepts and Apps Credits: 3

**3RD SEMESTER**

CAD 235 Construction and Surveying CAD Credits: 3  
 ENG 130 Intro to Technical Comm Credits: 3  
 CAD 280 Intro to 3D Modeling-CAD 1B Credits: 3  
 MET 130 Material Science Credits: 3  
 CAM 161 Machining II Credits: 2  
 PHY 143 Applied Industrial Physics Credits: 3

**4TH SEMESTER**

CAD 287 Capstone Project Credits: 2  
 BUS 120 Principles of Management Credits: 3  
 PSY 111 Indust/Organization Psych Credits: 3  
 SPE 101 Public Speaking Credits: 3  
 \_\_\_\_\_ Elective Credits: 3

\*Select 3 Elective credits from: CAD 215, CAD 281, CAD 291, CAM 122, CAM 124.

**\*\*Students will also earn CAD 120 Manual Drafting (Credits: 2), CAD 265 Introduction to KeyCreator (Credits: 3), and CAM 216 Basic CAD/CAM (Credits: 2).**

This program participates in College Credit Plus (CCP) at Owens Community College.

College Credits earned via CCP: 13  
**TOTAL: 13**

**Cost savings to the student: \$1,989**  
*Calculation is based on current tuition structure, and is subject to change.*

Students do not receive an application fee if they continue their studies at Owens Community College!

For enrollment information, please contact your Admissions Representative:

Katie Heilakka  
 Office of Admissions  
 30335 Oregon Rd.  
 Perrysburg, OH 43551  
 (567) 661-7777  
 Katharine\_Heilakka@owens.edu

\*Ohio Transfer Module Course; More information about the Ohio Transfer Module Course can be found at [www.ohiohighered.org/transfer/transfermodule](http://www.ohiohighered.org/transfer/transfermodule)

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