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Starts Here.*



## **INTEGRATED MACHINING & ENGINEERING AT CLAY HIGH SCHOOL**

**Owens Community College Major:** Machining Certificate  
**Credits:** 30

### **PROGRAM INFORMATION**

This certificate is designed for students interested in the various machine trades, such as machinist, tool and die mold maker, pattern maker, tool maker, Computer Numerical Control (CNC) operator and more.

### **JOB OPPORTUNITIES FOR GRADUATES**

There are a number of skilled positions/careers available to students taking this program. Positions held are tool & die, machinist, tool maker, die maker, mold maker, CNC machinist, CAM/CNC Programmer, and CNC Operator.

### **SALARY**

The median hourly wage for machinists and CNC Machinists is \$18.99. The lowest 10 percent earned less than \$11.70 per hour, and the top 10 percent earned more than \$28.75 per hour. While CNC operators make slightly less the machinists and CNC machinists, they are not required to have as much overall knowledge to perform their jobs. Many CNC operators expand their skills and knowledge to become machinists.

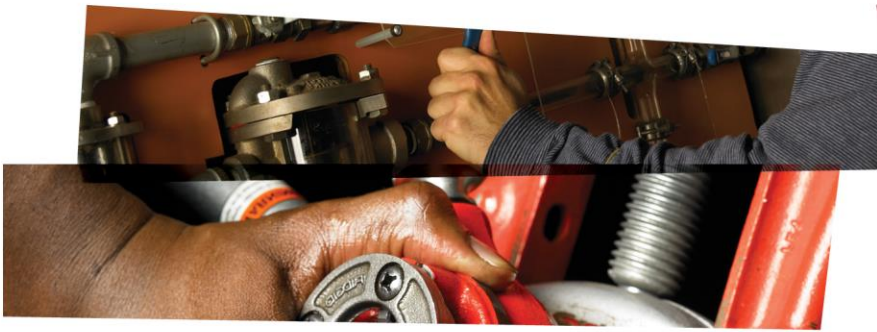
The median hourly wage for tool and die makers is \$22.60. The lowest 10 percent earned less than \$15.16 per hour, and the top 10 percent earned more than \$33.44 per hour.

The median annual wage for industrial machinery mechanics and maintenance workers and millwrights is \$45,840. The lowest 10 percent earned less than \$29,020, and the top 10 percent earned more than \$69,990.

Apprentices will make less than journeymen make, however they are on a progressive pay scale. Generally apprentices receive pay increases as they progress through their apprenticeship. As apprentices advance in their skills and are capable of working with limited supervision their rate of pay reflects that knowledge and skill advancement



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MTH 151 Applied Algebra	Credits: 2
MTH 152 Applied Geometry/Trig	Credits: 2
<b>AIM 143 Machining Blueprint Reading</b>	<b>Credits: 3</b>
<b>CAM 160 Machining I</b>	<b>Credits: 2</b>
<b>CAM 161 Machining II</b>	<b>Credits: 2</b>
CAD 117 Intro to Board & CAD Drafting	Credits: 3
CAD 144 GD & T	Credits: 2
SKT 160 Machinery Handbook	Credits: 2

**COURSE ELECTIVES**

Select 12 credits from the following:

CAM 122 CNC Mill Applications	Credits: 2
CAM 124 CNC Lathe Applications	Credits: 2
CAM 126 Advanced CNC Applications	Credits: 2
CAM 216 Basic CAD/CAM	Credits: 2
CAM 218 Advanced CAD/CAM	Credits: 2
<b>AIM 165 Material Science</b>	<b>Credits: 2</b>
WLD 191 Intro to the Welding Processes	Credits: 2
WLD 192 SMAW (Flat & Horizontal)	Credits: 2
WLD 193 SMAW (Vertical and Overhead)	Credits: 2

Students will also earn **AIM 140: Blueprint Reading for Industry (Credits: 2)**, **AIM 142: Mechanical Blueprint Reading (Credits: 3)** and **CAM 120: Manual Drafting (Credits: 2)**.

In order to earn the CTAG credit, the student must pass Manufacturing Processes with a C or better.

**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 the 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 have earned a 2.5 on a 4.0 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.

This program participates in College Credit Plus (CCP) at Owens Community College, as well as earns college credit through the (CT)<sup>2</sup> program and articulation agreements.

College Credits earned via CCP:	10
College Credits earned via (CT) <sup>2</sup> :	02
College Credits earned via Articulation:	04
<b>TOTAL:</b>	<b>16</b>

**Cost savings to the student: \$3,978**  
*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:

Office of Admissions  
 30335 Oregon Rd.  
 Perrysburg, OH 43551  
 (567) 661-7777

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