



## Mecosta-Osceola Career Center

### Manufacturing Technology CTE Career Cluster: Manufacturing

#### WHAT TO KNOW

This program is a one-year exploratory program that focuses on Manufacturing, Automation, Machine Tool and CNC Machining Technology. Students will participate in a mix of lesson-based instruction and hands-on work. Students may learn a variety of machining techniques and industrial aspects and fields. Students may learn precision measurement, print reading, milling machines, engine lathes, drill presses, surface grinders and CNC Haas Milling machines. The automation area focuses on electrical, hydraulics, pneumatics, plastics and robotic systems. Students learn to become problem solvers, excellent team members and leaders in this career field that are highly sought after by employers. Many graduates may help fill our community's workforce needs or continue their career path in a post-secondary opportunity, such as college, university or an apprenticeship. The MT program is an excellent start to anyone's future, no matter what skill level they are at.

#### CLASSROOM AND PROGRAM HIGHLIGHTS

Some highlights of the program are Articulated Credit with Post-Secondary Institutions, may meet Michigan Merit Curriculum final-year math experience graduation requirement. Design and measurement accuracy, proper tool names and uses, create and design with 3D software, interpret part prints and standards, learn programming for robotics and CNC, injection molding process and tooling and hydraulics and pneumatics systems.

#### YOUR FUTURE

Career Opportunities can include many disciplines including mechanical, manufacturing, electrical, and aerospace. Apprenticeships as lineman and tool and die, machinist, CAD/CAM/CNC operator or designer, robotic technician and programmer or military engineers.



## WELCOME

Welcome to the Mecosta-Osceola Career Center where we strive to put learning in the hands of our students and make each day full of interactive and meaningful experiences that translate into real world skills.

**Focused and Challenged**

**Contextual Approach to Learning**

**Pathway-based Programs**



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Notice of Nondiscrimination In compliance with Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Age Discrimination Act of 1975, the Americans with Disabilities Act of 1990, and the State of Michigan's Elliott-Larsen Civil Rights Act of 1977, Section 102(a) it is the policy of the Mecosta-Osceola Intermediate School District that no person shall, on the basis of race, color, religion, national origin or ancestry, gender, age, disability, height, weight, or marital status be excluded from participation in, be denied the benefits of, or be subjected to discrimination during any program or activity or in employment. In addition, arrangements can be made to ensure that the lack of English language skills is not a barrier to admission or participation. Inquiries regarding this policy should be directed to: Superintendent or superintendent designee, Mecosta-Osceola Intermediate School District, 15760 190th Avenue, Big Rapids, MI 49307, Telephone (231) 796-3543.