

Precision Machining Technology



Program Highlights

Computer Numeric Control (CNC) Machining
 CNC Programming
 SolidWorks FeatureCAM
 Computer Aided Machinery
 Precision Measuring Procedures
 Blueprint Reading
 Computer Aided Drafting
 Drill Press Operation
 Power Saw Operation
 Honing Machine Operation
 Vertical and Horizontal Milling Techniques
 Lathe Operation
 Surface Grinding
 BOTSISQ

Special Features

Apprenticeship
 Advanced Placement
 Early College Connection
 Affiliation with DTMA (Dayton Tool and Machining Association)
 SkillsUSA
 National Institute of Metalworking Skills (NIMS) Certified Program
 Quick Start classes provide Sinclair Community College credit

Career Opportunities

CNC Programmer, CNC Machinist, CAD Designer, Machinist, Moldmaker, Die Maker, Tool & Die Maker, Bench Helper, Machine Maintenance Worker

Job Outlook

Excellent employment opportunities in precision machining are projected through 2014 because of the advancements in automation, including CNC machining and computer-aided design.

Career Pathway To

Manufacturing Engineer
 Mechanical Engineer
 Machine Shop Owner / Manager

ADDITIONAL PROGRAM HIGHLIGHTS

ORGANIZATIONAL AFFILIATIONS
 This career program has affiliations with these organizations.

SkillsUSA, Dayton Tooling and Manufacturing Association (DTMA)

PROGRAM CERTIFICATIONS
 This career program has the accreditations/certifications that are listed in this section.

National Institute of Metalworking Skills (NIMS)

STUDENT CERTIFICATIONS
 Training in this career program may lead to accreditations/certifications that are listed in this section.

National Institute of Metalworking Skills (NIMS)

TEACHER ACCREDITATIONS/ CERTIFICATIONS
 This section lists any accreditations and/or certifications that one or more of the instructors of this career program possess.

National Institute of Metalworking Skills (NIMS)



For more information contact your Guidance Counselor or:
 Miami Valley Career Technology Center
 6800 Hoke Road Clayton, OH 45315-9740
 Toll Free 1 877-766-8282 or 937-854-6390
 or www.mvctc.com



The MVCTC is dedicated to providing equal admission opportunities, equal educational opportunities, and equal employment opportunities without regard to race, religion, color, national origin, ancestry, age, sex, sexual orientation, handicap, marital status, or veteran status.

2010-2011

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Level 1
Lab - Required
English Students will take courses to meet the Ohio Core requirements
Math Students will take courses to meet the Ohio Core requirements
Science Students will take courses to meet the Ohio Core requirements

Level 2
Lab - Required
English Students will take courses to meet the Ohio Core requirements Dual Credit College Academic Writing & Reading Dual Credit College Writing in Academic Discourse
Math Students will take courses to meet the Ohio Core requirements Dual Credit College Algebra/Statistics if requirements met or Pre-Calculus Dual Credit College Pre-Calculus
Science Students will take courses to meet the Ohio Core requirements
Social Studies Students will take courses to meet the Ohio Core requirements Dual Credit Economic Life

For more information about the Ohio Core, go to www.ode.state.oh.us and use the keywords search: Ohio Core. All students attending MVCTC a full day have an opportunity to earn up to eight high school credits.

College Tech Prep:

- College Tech Prep students must have a C or better in Algebra I by the end of the junior year.
- Students enrolled in Allied Health Technologies Tech Prep, Biotechnology Tech Prep and Sports Medicine Tech Prep must have a C or better in Biology by the end of the junior year.
- College Tech Prep students must complete Algebra II before graduation.

Dual Credit:

Dual enrollment is not PSEO. Dual Enrollment allows students the opportunity to remain on the MVCTC campus, take a college-level course during the school day and earn both high school and college credit.

Courses Subject to Change