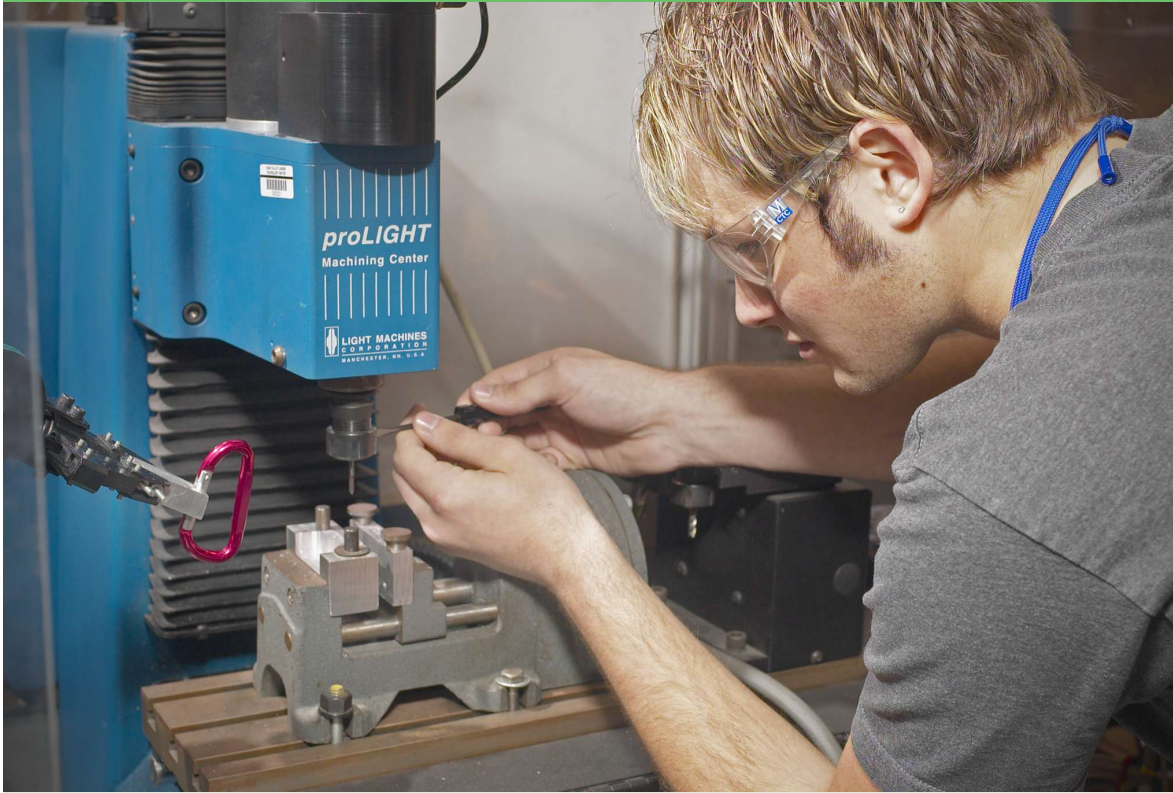


Robotics and Automation



Program Highlights

- Robots and Robotic Applications
- Robotic Programming
- Automated Material Handling
- Robotic Welding
- Computer Numerical Control (CNC)
- CNC Plasma Cutting
- Solid Modeling/F1
- Automated Manufacturing Work Cells
- Data Acquisition and Analysis
- Electrical/Electronic Controls
- Battling Robot Design and Competition

Special Features

- College Tech Prep Option Program
- Early College Connection
- SkillsUSA

Career Opportunities

- Robot Operator
- Robotic Technician
- Robot Installer
- Robotic Engineer

Job Outlook

The employment outlook for robot operators and robotic technicians is excellent. Robotic technicians can earn from \$30,000 to \$50,000 per year. Most workers in the robotic field are in industrial settings, but many new robotic applications are developed every year as automation technology advances. Robotic engineers who create new robots and new robotic applications can earn over \$100,000 per year.

Career Pathway To:

- Robotic Engineer
- Manufacturing Engineer

ADDITIONAL PROGRAM HIGHLIGHTS

CAREER PROGRAM ARTICULATIONS

Colleges listed in this section allow selected credits earned in this career program at MVCTC to be transferable to the partner college. These credits are applied toward a degree. Number of college credits subject to change.

Sinclair Community College
University of Dayton
Edison Community College

ORGANIZATIONAL AFFILIATIONS

This career program has affiliations with these organizations.

SkillsUSA
Miami Valley Tech Prep Consortium
Dayton Tooling & Manufacturing Association (DTMA)
Society of Manufacturing Engineers (SME)
American Welding Society (AWS)

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

Robotics and Automation

COLLEGE TECH PREP OPTION PROGRAM

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