



# Precision Machining A.A.S.

## GAIN HANDS-ON TRAINING, JOB-READY SKILLS, AND LIFELONG PROFESSIONAL OPPORTUNITIES.

MCC has one of the best-equipped college machining programs in New York State. You'll get first-hand experience in the most current techniques and technology, while learning directly from journeyman machinists with years of professional experience. Our Precision Machining associate degree program prepares you for immediate employment (about 90 percent of our students work part-time while they're in the program), and you'll develop the potential to advance into quality control, engineering, and supervisory positions. Or you can continue studying toward a bachelor's degree, thanks to MCC's unique transfer agreement with SUNY IT at Utica.

### PROGRAM DESCRIPTION

This program will prepare you for employment in the precision metal working industry. You'll master the hands-on skills that employers require, while gaining an understanding of advanced manufacturing techniques to make you a more valuable employee—and a better candidate for promotion into supervisory roles. The Precision Machining associate degree program will prepare you for careers in such fields as mold making, machine building, tool making, die making, CNC machining, and other manufacturing areas.

Students interested in this program may also be interested in the Apprenticeship Training & Machine Trades program.

“When I get a resume from an MCC graduate, it goes to the top of the pile.”

—Jim Sydor  
Sydor Optics

### CURRICULUM OVERVIEW

#### FIRST SEMESTER:

- TAM 101 Machine Shop Theory I
- TAM 105 Machine Project Lab **OR**
- PROGRAM TECHNICAL ELECTIVE*
- TAM 121 Mathematics for Machinists I
- TAM 131 Machine Shop Print Reading I
- TAM 141 Machine Shop Laboratory

#### SECOND SEMESTER:

- ENG 101 College Composition **OR**
- ENG 200 Advanced Composition
- TAM 123 Mathematics for Machinists II
- TAM 132 Machine Shop Print Reading II
- TAM 139 CNC Vertical Machine Tool Programming I
- TAM 142 CNC Mill Setup **OR**
- TAM 143 CNC Lathe Setup
- TAM 205 CNC Machine Project Laboratory **OR**
- PROGRAM TECHNICAL ELECTIVE*

#### THIRD SEMESTER:

- MATHEMATICS ELECTIVE*
- SOCIAL SCIENCE ELECTIVE*
- SPC 141 Interpersonal Speech Communication **OR**
- SPC 143 Small Group Communication
- TAM 245 Computer Aided Manufacturing
- TAM 255 Computer Aided Manufacturing Project Laboratory **OR**
- PROGRAM TECHNICAL ELECTIVE*

#### FOURTH SEMESTER:

- ECO 101 Introduction to Economics
- NATURAL SCIENCE ELECTIVE*
- MATHEMATICS/NATURAL SCIENCE ELECTIVE*
- TAM 155 Tool and Fixture Design
- TAM 241 Advanced Machine Shop Laboratory
- HEALTH/PHYSICAL EDUCATION*

**Total Credits: 64**



**GET THE LATEST ON CAREERS IN OUR AREA, INCLUDING EMPLOYMENT PROJECTIONS, EARNINGS, AND JOB OPENINGS AT [CAREERCOACH.MONROECC.EDU](http://CAREERCOACH.MONROECC.EDU)**

*Start your career with employers like these:*

- DP Tool and Machine
- MWI, Inc.
- Brinkman Precision
- Optimax Systems
- CooperVision
- Rochester Precision Optics
- Randstad
- Enpro Industries
- Seneca Foods Corp
- Baldwin Richardson Foods

*Your job title could be:*

- Computer-Controlled Machine Tool Operator—Metal and Plastic
- Machinist—Aircraft, Automotive, or Optical
- Industrial Machinery Mechanic
- First-Line Supervisor of Production and Operating Workers
- Lathe and Turning Machine Tool Setter

*Average starting salary: \$33,000 per year.*

**A STRONG START—ACADEMICALLY AND FINANCIALLY!**

MCC's low tuition (\$1,708 per semester) plus financial aid opportunities help make a high-quality education affordable. You could qualify for federal grants, workforce grants, scholarships, and more.

Visit [www.monroecc.edu/go/finaid](http://www.monroecc.edu/go/finaid) or call 585.292.2050

**AMONG THE BEST COMMUNITY COLLEGES**

MCC is part of the State University of New York (SUNY) and recognized as being among the 19 most innovative community colleges in the United States as a member of the League for Innovation in the Community College. The League's members demonstrate educational leadership in academics, technology, workforce development, and administration.

**FIND OUT MORE**

To learn more about MCC, visit us on the web at [www.monroecc.edu](http://www.monroecc.edu)

Apply today at [admissions.monroecc.edu](http://admissions.monroecc.edu) or contact the Admissions Office at 585.292.2200 to schedule a visit.