Workplace Competencies
Employers expect program graduates to:
• Apply a background in math, including trigonometry, and read engineering drawings
• Operate CNC machining and turning centers, and CNC program proveouts
• Apply CAD/CAM programming methods needed for CNC centers
• Understand fixturing techniques and tooling selection for machining typical piece parts

Admission Requirements
• High school diploma or GED
• Demonstration of proficiency in basic skills through a course placement assessment
• Completion of Machine Tool Operations CNC diploma program
• Completion of two years of hands-on CNC machine tool experience

To prepare you for employment as a CNC machine operator and programmer, MATC’s equipment includes six industrial-based CNC machining centers and turning centers, and CAD/CAM workstations. Students gain hands-on experience in all phases of programming and operations.

Career Outlook
Large and small manufacturers have a need for CNC machine operators/programmers. Due to the high number of industrial companies in southeastern Wisconsin, there are local opportunities for skilled people. The job prospects are especially positive for trained CNC programmers.
# Computer Numerical Control (CNC) Machine Operator/Programmer Curriculum

Select one group of programming courses per quarter:

## CNC Machining Center Programming:
- **CNC-324** CNC Machine Programming/Proveout 1 ‡ ........................................ 3
- **CNC-325** CNC Machine Programming/Proveout 2 ‡ ........................................ 3
- **CNC-326** Machining Center CAD/CAM Programming 1 ‡ .......................... 3
- **CNC-327** Machining Center CAD/CAM Programming 2 ‡ .......................... 3

## CNC Turning Center Programming:
- **CNC-332** CNC Turning Programming/Proveout 1 ‡ ........................................ 3
- **CNC-333** CNC Turning Programming/Proveout 2 ‡ ........................................ 3
- **CNC-334** Turning Center CAD/CAM Programming 1 ‡ .......................... 3
- **CNC-335** Turning Center CAD/CAM Programming 2 ‡ .......................... 3

## Additional Required Courses:
- **ENG-347** Communications 2 ...................................... 1
- **CNC-302** Computer Application/CNC ...................................... 1
- **MACHTL-386** Machine Trades Mathematics 3 ‡ .................. 1
- **MDRAFT-320** Coordinate Blueprint Reading ‡ .................. 1
- **CNC-320** Tooling and Fixturing ...................................... 1
- **CNC-321** CNC Machine Technology ...................................... 1
- **MTLGY-321** Metallurgy 1 .................................................. 1
- **SOCSCI-330** Applied Economics & Human Relations ........ 1

**TOTAL CREDITS: 32**

‡ Prerequisite required. Curriculum requirements are subject to change.

For complete information, go to matc.edu/tas/index.cfm
To apply for financial aid, visit fafsa.ed.gov School Code: 003866

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### Possible Careers
- CNC Machine Operator
- CNC Machine Programmer

### Related Programs
- Machine Tool Operations
- Tool and Die Making

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For more information: matc.edu or 414-297-MATC Wisconsin Relay System 711

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Milwaukee Campus
700 West State Street

Mequon Campus
5555 West Highland Road

Oak Creek Campus
6665 South Howell Avenue

West Allis Campus
1200 South 71st Street