

# Metal Fabrication

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## Associate in Occupational Studies Degree

This program prepares students for careers in metal fabrication and related manufacturing fields. The combination of laboratory and lecture sessions provide the theory and practical application of the metal fabrication trades. Topics of study include Computer Numerical Control (CNC) machining, manual machining, computer-aided manufacturing (CAM), 3D solid modeling, and manufacturing processes. Students will also gain knowledge and experience in modern welding processes, including gas metal arc welding, gas tungsten arc welding, shielded metal arc welding, as well as oxy-fuel processes and plasma cutting.

Upon completion of their training, students will be prepared to test for American Welding Society and New York State Department of Transportation welding certifications.

### Total Credit Hours: 64

#### First Semester

CF100 College Foundations Seminar	1.0
MT170 Oxy-Acetyl Wld Pr	4.0
MT174 Elec Arc Welding	4.0
MT270 Weld Pro-Mig&Tig	4.0
MT272 Adv Elec Arc Weld	4.0

#### Second Semester

MT271 Metallurgy-Welder	3.0
MT278 Weldng Insp&QC Test	4.0
MT277 Weld Bluprnt&Metl	4.0
MT276 Weld/Or Irrn&Blksm	4.0
MT279 Sheet Metal Fabrication	3.0

#### Third Semester

MT291 Introduction to Machining	4.0
MT292 Introduction to CNC Milling	4.0
MT294 Intro to CNC Turning Centers	4.0
MT114 Manufacturing Processes	3.0

#### Fourth Semester

MT295 Advanced CNC Turning Centers	4.0
MT296 Multi-Axis CNC Machining	4.0
MT297 CNC Capstone	4.0
PE172 Health and Wellness	2.0