

MT/CNC Technology AAS

Career & Technial Division

Program Description:

The CNC Specialist program provides students the opportunity to prepare for entry level careers as machinists using conventional equipment and computer control equipment.

The graduate will have completed fundamentals required for all machining careers – industrial safety, blueprint reading and precision measurement. Technical courses develop skills using conventional machines and using computerized manufacturing equipment.

Participants in the CNC Specialist program receive technical skills immediately useful in the workplace requiring CNC knowledge. They receive hands-on instruction in set up, operation, programming, maintenance, etc. on state-of-the-market CNC equipment used every day in industry. They also receive instruction in industrial communications, organizational skills, mathematics for machinists and safety. Before graduation, each individual is required to pass all Level 1 NIMS CNC credentials.

The Associate Degree program requires four semesters. However, the student may select to complete programs at the certificate level, two semesters, or at the skills set level. The course work in these two training levels is an integral part of the degree program.

The program adheres to the standards of the National Institute for Metalworking Skills (NIMS);

Career Outlook:

Despite projected slower-than-average employment growth, job opportunities for machinists should continue to be excellent. The number of workers obtaining the skills and knowledge necessary to fill machinist jobs is expected to be less than the number of job openings arising each year from employment growth and from the need to replace experienced machinists who transfer to other occupations or retire.

Salary Forecast:

For the most current salary information please refer to the Bureau of Labor Statistics “Occupational Outlook Handbook” found at www.bls.gov/ooh/.

Program Admission Requirements:

The CNC Specialist Program has admission and candidacy requirements in addition to the Mountwest Community & Technical College admission guidelines.

Employment Opportunities:

Entry-level positions for which graduates will compete include:

1. Manual machinist
2. CNC machinist
3. Industrial sales representative
4. Auto plant
5. Machinist shop
6. Fabricator

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MT/CNC Technology - Major Code CM80

Name:			ID Number 942-	
CAPS SCORES:	MATH:	ENGLISH:	READ:	DOE:
COL 101 Faculty:				
Educational Counselor:				
Faculty Advisor:				

COURSE REQUIRED

COURSE	REQUIREMENTS	SEM	HRS	GR	SUBSTITUTE/REPEAT CRS	SEM	CR
MAT 135	Mathematics for Machinist ¹		3				
MT 105	Industrial Safety ²		2				
MT 121	Introduction to Machining		4				
MT 200	Blueprint Reading		3				
MT 205	Precision Measurement		3				
IT 101	Fundamentals of Computers		3				
MT 215	Metalworking Theory & App		10				
MT 233	NIMS		4				
EC 102	Basic Economics ²		3				
MFE 220	Computer Aided Design		4				
MT 241	Introduction to CNC Machining		4				
MT 244	Setup & Operation CNC ³		4				
COM 125	Interpersonal Communication ²		3				
ENL 231	Technical Report Writing ⁴		3				
MT 246	Computer Aided Mfg CNC ⁵		4				
MT 248	NIMS/CNC ⁶		4				

DEVELOPMENTAL COURSES REQUIRED

COURSE	REQUIREMENTS	SEM	HRS	GR	SUBSTITUTE/REPEAT CRS	SEM	CR

HOURS REQUIRED FOR GRADUATION: 61
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¹ MAT 135 has a prerequisite of placement in 100-level math.
² EC 102, and MG 105 has a prerequisite of placement in 100-level reading.
³ MT 244 has a prerequisite of MT 240 and MT 242.
⁴ ENL 231 has a prerequisite of placement in 100-level English, and placement in 100-level reading.
⁵ MT 246 has a prerequisite of MFE 220 and MT 244.
⁶ MT 248 has a prerequisite of MT 246.