

MACHINE TOOL TECHNOLOGY, ADVANCED

CERTIFICATE (C)

DESCRIPTION: This certificate program develops student skills in the operation of Computer-Aided Drafting (CAD) software and extensive focus on set-up, programming, and operation of Computer Numerical Control (CNC), CNC lathes, milling machines, and wire EDM, plus advanced inspection equipment. Completion of this certificate will qualify the student for entry-level employment as CNC machine operators, set-up personnel, and programmers.

A prerequisite for this program is the completion of the Basic Manufacturing Technology certificate program, the Welding Fabrication certificate, or the CAD Engineering associate degree.

PROGRAM REQUIREMENTS		CREDITS: 21
CAD 150	3D MODELING (3/4) ^A	
CAD 250	ADVANCED 3D MODELING (3/4) ^A	
MFG 122	MACHINING PROCESSES (3/4) ^A	
MFG 202	CNC II (4/6) ^A	
MFG 205	CNC III (4/6) ^A	
MFG 220	JIGS & FIXTURES DESIGN FUNDAMENTALS (4/6) ^A	

GPA of 2.0 or higher must be maintained in occupational specialty courses

SUGGESTED ELECTIVES	CREDITS: 6
ANY APP COURSE (6/6) ^A	

MINIMUM 27 CREDIT HOURS/36 CONTACT HOURS

NOTES:

^A Included in occupational specialty

With additional course work, Machine Tool Technology, Advanced Certificate graduates can earn an AAS degree in Machine Tool Technology.

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CERTIFICATE (C)

SUGGESTED SEQUENCE OF COURSES

YEAR 1 (FALL SEMESTER)		CREDITS: 14
CAD 150	3D MODELING (3/4)	
MFG 122	MANUFACTURING PROCESSES (3/4)	
MFG 202	CNC II (4/6)	
MFG 220	JIGS & FIXTURE DESIGN FUNDAMENTALS (4/6)	

YEAR 1 (SPRING SEMESTER)		CREDITS: 13
CAD 250	ADVANCED 3D MODELING (3/4)	
MFG 205	CNC III (4/6)	
APP	ELECTIVE (6/6)	

[Gainful Employment information for Machine Tool Technology, Advanced](#)