

Machine Tool Technology Tool & Die

Associate of Applied Science Degree

Offered at MCC (Code: MVTLD)

A student who has completed the 10-month Machine Trades Practitioner program (or who has adequate past work experience or educational background) may elect to continue in the Tool & Die Option program for an additional two semesters. This additional training will provide skills for working in the tool and die field.

Upon satisfactory completion of coursework and a minimum GPA of 2.0, graduates of this program may transfer up to 64 credits from MCC toward a BA degree from the University of Northern Iowa; also, 16 hours of vocational credit already transfer to the Iowa Regent schools.

General Education		Credit Hours
CHM103	Metallurgy	2
ENG111	Technical Writing	3
MAT790	Shop Mathematics	3
MAT791	Shop Mathematics II	1
Social/Behavioral Science/Humanities (courses approved for AA)		3
or		
PSY212	Psych. of Human and Work Relations	(3)
Total		12
Program Requirements		
IND110	CPR, First Aid and Safety	1
MFG101	Measuring Tools	1.5
MFG121	Machine Trade Printreading I	2
MFG131	Machine Trade Printreading II	2
MFG200	Electric Discharge Machine (EDM)	1
MFG255	Engine Lathe Operations	5
MFG262	Mill Operations Theory	3
MFG270	Grinders Theory	1
MFG275	Hand and Bench Machine Tools	1
MFG280	Drill Presses	1.5
MFG282	CNC Plasma Table	1
MFG322	Introduction to CAD/CAM	3
MFG353	CNC Lathe Fundamentals	2.5
MFG357	CNC Mill	3.5
MFG407	Basic Die Making	7
MFG418	Advanced Die Making	9
MFG425	Jig and Fixtures	6
MFG456	Injection Mold Making	6
WEL116	General Welding	1
Total		58
Total Required Hours		70