

Integrated Metals: Machine Tool Operator

Limited Entry, Certificate

MHCC Faculty Advisers

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Program Outcomes

At the completion of this program, the student should be able to:

- Demonstrate and/or describe safe work habits and environmental issues associated with modern manufacturing settings
- Read, interpret and apply blueprints for the production and inspection of manufactured work pieces
- Demonstrate the correct application and use of precision measuring equipment commonly found in a manufacturing setting
- Plan and produce work pieces on a manual drill press to required blueprint specifications using common industry methods
- Plan and produce work pieces on a manual engine lathe to required blueprint specifications using common industry methods
- Plan and produce work pieces on a manual milling machine to required blueprint specifications using common industry methods
- Demonstrate, explain and/or apply CNC program code and machine tools and software to produce work pieces to required blueprint specifications

NOTE: The course requirements for this program are subject to change each academic year. For MHCC certificate/degree requirements, a student must follow the program requirements the year the student is officially admitted to the program or the year the student is completing the program.

First Quarter		Credits
IMTL110	Machine Shop I Theory	3
IMTL111	Machine Shop I Lab	3
IMTL114	Blueprint Reading for the Metals Industry	4
IMTL116	Introduction to Precision Measuring.....	3
IMTL155	Industrial Safety.....	3
WR101	Workplace Communications or WR121 English Composition	3
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Second Quarter		Credits
IMTL130	Machine Shop II Theory	3
IMTL131	Machine Shop II Lab	3
IMTL134	Metallurgy Theory	3
IMTL135	Metallurgy Lab	1
IMTL136	Introduction to CNC (Computer Numerical Control) Machining.....	3
MTH60	Beginning Algebra I	4
		17

Third Quarter		Credits
IMTL150	Machine Shop III Theory	3
IMTL151	Machine Shop III Lab	3
IMTL153	CNC (Computer Numerical Control) Machining	4
MTH65	Beginning Algebra II ¹	4
	Human Relations requirement [‡]	3
		17

¹ Students may not use demonstrated proficiency on the College Placement Test (CPT) to satisfy this requirement.

[‡] See page 10.