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# Machining & Manufacturing Technology - CERT A

## Semester-by-Semester Pathway

A Certificate is outlined coursework that is designed to prepare a student to head out into the workforce in a short timeframe or for career advancement. This certificate totals 21 credit hours. Consult with an advisor for more information. Not all courses are offered each semester.

(T) are Systemwide Transfer Courses

(★) are recommended for this degree pathway.

Semester 1 - Fall				
Complete	Course ID	Course Title	Credit Hours	Notes
<b>Required Courses</b>				
	MC104	Machine Technology Math	2.00	Spring 2026, Fall 2026
	MC110	Bench Work	1.00	Fall 2026
	MC115	Machining I	3.00	Fall 2026
	MC118	Safety (OSHA)	1.00	
<b>Electives</b>				
<b>Semester Total:</b>			<b>7.00</b>	

Semester 2 - Spring				
Complete	Course ID	Course Title	Credit Hours	Notes
<b>Required Courses</b>				
	MC111	Print Reading	3.00	Spring 2026, Fall 2026
	MC113	Metallurgy	1.00	Spring 2026 Prereq: MC110 BenchWork with a Grade of C or higher, and MC115 Machining I with a Grade of C or higher.
	MC116	Machining II	3.00	Spring 2026, Fall 2026 Prereq: MC110 BenchWork with a Grade of C or higher, and MC115 Machining I with a Grade of C or higher.
<b>Electives</b>				
<b>Semester Total:</b>			<b>7.00</b>	

Semester 3 - Fall				
Complete	Course ID	Course Title	Credit Hours	Notes
<b>Required Courses</b>				
	MC112	Quality Control and Inspection	1.00	Spring 2026, Fall 2026
	MC117	CNC Operations	3.00	Fall 2026 Prereq: MC115 Machining I with a Grade of C or higher, or Departmental Consent.
<b>Electives</b>				
<b>Semester Total:</b>			<b>4.00</b>	

Semester 4 - Spring				
Complete	Course ID	Course Title	Credit Hours	Notes
<b>Required Courses</b>				
	MC114	Machine Tool Processes	1.00	Spring 2026
	TR120	Work Ethics	2.00	Spring 2026, Summer 2026, Fall 2026
<b>Electives</b>				
<b>Semester Total:</b>			<b>3.00</b>	

**Total Credits: 21.00**

\*Semester offerings reflect the current academic year.

