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Machining & Manufacturing Technology - CERT B

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 30 credit hours. Consult with an advisor for more information. Not all courses are offered each semester.

( ) are Systemwide Transfer Courses

(★) are recommended for this degree pathway.

Semester 1 - Fall				
Complete	**Course ID**	**Course Title**	**Credit Hours**	**Notes**
Required Courses				
	MC104	Machine Technology Math	2.00	Fall 2026, Spring 2027
	MC110	Bench Work	1.00	Fall 2026
	MC115	Machining I	3.00	Fall 2026
	MC118	Safety (OSHA)	1.00	
Electives				
		Semester Total:	**7.00**	

Semester 2 - Spring				
Complete	**Course ID**	**Course Title**	**Credit Hours**	**Notes**
Required Courses				
	MC111	Print Reading	3.00	Fall 2026, Spring 2027
	MC113	Metallurgy	1.00	Spring 2027 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	Fall 2026, Spring 2027 Prereq: MC110 BenchWork with a Grade of C or higher, and MC115 Machining I with a Grade of C or higher.
Electives				
		Semester Total:	**7.00**	

Semester 3 - Fall				
Complete	**Course ID**	**Course Title**	**Credit Hours**	**Notes**
Required Courses				
	MC112	Quality Control and Inspection	1.00	Fall 2026, Spring 2027
	MC117	CNC Operations	3.00	Fall 2026 Prereq: MC115 Machining I with a Grade of C or higher, or Departmental Consent.
	MC204	Machine Practices I	3.00	Fall 2026 Prereq: Departmental Consent.
Electives				

Semester Total:	**7.00**	

Semester 4 - Spring				
Complete	**Course ID**	**Course Title**	**Credit Hours**	**Notes**
Required Courses				
	MC114	Machine Tool Processes	1.00	Spring 2027
	MC205	Machine Practices II	3.00	Spring 2027 Prereq: Departmental Consent, or MC204 Machine Practices I w/Grade of C or higher.
	MC206	CNC Operations-Advanced	3.00	Spring 2027 Prereq: MC117 CNC Operations.
	TR120	Work Ethics	2.00	Fall 2026, Spring 2027
Electives				
		Semester Total:	**9.00**	

Total Credits: **30.00**

*Semester offerings reflect the current academic year.