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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.

( ) 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	Fall, Spring	
	MC110	Bench Work	1.00	Fall	
	MC115	Machining I	3.00	Fall	
	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	Fall, Spring	
	MC113	Metallurgy	1.00	Spring 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, Spring 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	Fall, Spring	
	MC117	CNC Operations	3.00	Fall 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
	TR120	Work Ethics	2.00	Fall, Spring
<b>Electives</b>				
<b>Semester Total:</b>			<b>3.00</b>	

**Total Credits: 21.00**

\*Semester offerings reflect the current academic year.

