



Academic & Career **PATHWAYS**

Associate of Applied Science (A.A.S.)

Computer Integrated Machining and Manufacturing (CIMM) Tool Maker Tool Maker – Part-Time Advising Guide

This program, designed by MCC's Precision Machining Consortium industry partners, teaches one to build fixtures and tools to aid in fabrication of other items. Many of these are behind-the-scenes items that most people don't see but are absolutely necessary to produce the things that are seen. We are certified by the National Institute for Metalworking Skills (NIMS).

	Course	Degree Requirements Met	Credits	Action Steps
Semester 1				
<input type="checkbox"/>	CIMM 100_ Introduction to Machining and Manufacturing	Program Requirement	3	▪ Meet with Student Success Advisor to build degree plan
<input type="checkbox"/>	CIMM 105_ Machine Trades Print Reading	Program Requirement	2	
<input type="checkbox"/>	CIMM 115_ Manual Mill	Program Requirement	3	
Total Semester Credits			8	
Semester 2				
<input type="checkbox"/>	CIMM 122_ CNC Mill Operation Fundamentals	Program Requirement	4	▪ Meet with Student Success Advisor
<input type="checkbox"/>	CIMM 104_ Metrology	Program Requirement	2	
<input type="checkbox"/>	EHSS 111_ Introduction to Health and Safety for General Industry	Program Requirement	1	
Total Semester Credits			7	
Semester 3				
<input type="checkbox"/>	CIMM 106_ Geometric Dimensioning and Tolerancing	Program Requirement	2	▪ Meet with Student Success Advisor
<input type="checkbox"/>	CIMM 110_ Manual Lathe Operation	Program Requirement	3	
<input type="checkbox"/>	MATH 102_ Technical and Business Math MATH 120_ College Algebra or MATH 150_ Precalculus Choose one	General Education Requirement	3	
Total Semester Credits			8	
Semester 4				
<input type="checkbox"/>	CIMM 121_ CNC Lathe Operation Fundamentals	Program Requirement	4	▪ Meet with Student Success Advisor ▪ Complete Civics Exam with 70% or higher
<input type="checkbox"/>	ENGL 101_ Composition & Reading I	General Education Requirement	3	
Total Semester Credits			7	
Semester 5				
<input type="checkbox"/>	CIMM 225_ MasterCAM I	Program Requirement	3	▪ Meet with Student Success Advisor
<input type="checkbox"/>	COMM 100_ Fundamentals of Speech	General Education Requirement	3	



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<input type="checkbox"/>	CIMM 154_Cutter Grinding or CIMM 155_Grinding Operations Choose one	Program Requirement	2-3*	
Total Semester Credits			8-9*	
Semester 6				
<input type="checkbox"/>	ENGL 215_ Technical Writing	General Education Requirement	3	<ul style="list-style-type: none"> ▪ Meet with Student Success Advisor
<input type="checkbox"/>	CIMM 141_ EDM Technologies	Program Requirement	4	
<input type="checkbox"/>	CIMM 231-238 Choose one	Program Requirement-Choose 1 Course	1	
Total Semester Credits			8	
Semester 7				
<input type="checkbox"/>	CIMM 201_ Metallurgy	Program Requirement	3	<ul style="list-style-type: none"> ▪ Meet with Student Success Advisor ▪ Meet with Career Center
<input type="checkbox"/>	CIMM 226_ MasterCAM II	Program Requirement	3	
<input type="checkbox"/>	HIST 120_ United States History to 1865 HIST 121_ United States History since 1865 or POLS 136_ Introduction to U.S. National Politics Choose one	General Education Requirement/Civics	3	
Total Semester Credits			9	
Semester 8				
<input type="checkbox"/>	CIMM 255_ Tool Design, Jigs and Fixtures		5	<ul style="list-style-type: none"> ▪ Meet with Student Success Advisor ▪ Apply for Graduation ▪ Apply for jobs
<input type="checkbox"/>	MATH 104_ Technical Mathematics II or MATH 150_ Choose one	General Education Requirement	3-5*	
Total Semester Credits			8-10*	
Credits Required for A.A.S. Degree			63*	
<i>*The A.A.S. in Computer Integrated Machining and Manufacturing (CIMM) Tool Maker Tool Maker requires a minimum of total credits to graduate. When selecting a course from multiple options, please consider the number of credits for each course to ensure meeting the minimum requirements for graduation.</i>				

This Pathway Map is an advising tool designed for part-time students and identifies the course recommendations for timely degree completion. All pathway maps can be modified to fit the individual needs of students. All students are encouraged to meet with their success advisor to develop an individualized completion plan that best meets their goals, interests, and objectives. Degree requirements and prerequisite information can be found here: [CIMM](#)

Please note:

Courses may require a prerequisite or appropriate placement, see the [Academic Catalog](#) for additional information.