



Academic & Career **PATHWAYS**

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

Computer Integrated Machining and Manufacturing (CIMA) – Machining Emphasis Full-Time Advising Guide

This program, designed by MCC's Precision Machining Consortium industry partners, trains one to operate manual and computer-controlled machine tools. It places the emphasis on those who want to skillfully operate the machines that build the products necessary in our everyday lives. 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_Fundamentals of Speech	Program Requirement	3	<ul style="list-style-type: none"> ▪ Meet with Student Success Advisor to build degree plan
<input type="checkbox"/>	CIMM 105_Introduction to Blueprint Reading	Program Requirement	2	
<input type="checkbox"/>	CIMM 115_Manual Mill	Program Requirement	3	
<input type="checkbox"/>	CIMM 122_CNC Mill Operation Fundamentals	Program Requirement	4	
<input type="checkbox"/>	CIMM 151_Mill Internship & Co-Op or CIMM 161_Advanced Mill Operations Choose one	Program Requirement	3	
Total Semester Credits			15	
Semester 2				
<input type="checkbox"/>	CIMM 106_Geometric Dimensioning and Tolerancing	Program Requirement	2	<ul style="list-style-type: none"> ▪ Meet with Student Success Advisor
<input type="checkbox"/>	CIMM 110_Manual Lathe Operation	Program Requirement	3	
<input type="checkbox"/>	CIMM 121_CNC Lathe Operation Fundamentals	Program Requirement	4	
<input type="checkbox"/>	CIMM 150_Lathe Internship & Co-Op or CIMM 160_Advanced Lathe Operations Choose one	Program Requirement	3-4	
<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			15-16	
Semester 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	<ul style="list-style-type: none"> ▪ Meet with Student Success Advisor ▪ Complete Civics Exam with 70% or higher
Total Semester Credits			3	
Semester 4				
<input type="checkbox"/>	CIMM 225_Capstone - Surface Grinding	Program Requirement	3	<ul style="list-style-type: none"> ▪ Meet with Student Success Advisor ▪ Meet with Career
<input type="checkbox"/>	CIMM 141_EDM Technologies	Program Requirement	4	
<input type="checkbox"/>	CIMM 154_Cutter Grinding or CIMM 155_Grinding Operations	Program Requirement	2-3	



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	Choose one			Center
<input type="checkbox"/>	MATH 102_Technical and Business Math MATH 120_College Algebra or MATH 150_Lathe Internship & Co-Op Choose one	General Education Requirement	3	
<input type="checkbox"/>	ENGL 101_Composition & Reading I	General Education Requirement	3	
Total Semester Credits			15-16	
Semester 5				
<input type="checkbox"/>	ENGL 215_Technical Writing	General Education Requirement	3	<ul style="list-style-type: none"> ▪ Meet with Student Success Advisor ▪ Apply for Graduation ▪ Apply for jobs
<input type="checkbox"/>	CIMM 231-238 Choose one	Program Requirement	2	
<input type="checkbox"/>	COMM 100_Fundamentals of Speech	General Education Requirement	3	
<input type="checkbox"/>	MATH 104_Technical Mathematics II or MATH 130_Trigonometry Choose one	General Education Requirement	3-5*	
<input type="checkbox"/>	CIMM 226_MasterCAM II	Program Requirement	3	
Total Semester Credits			14-16	
Credits Required for A.A.S. Degree			61 - 65	
<p><i>*The A.A.S. in Computer Integrated Machining and Manufacturing (CIMM) requires a minimum of 61 - 65 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></p>				

This Pathway Map is an advising tool designed for full-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: [Computer Integrated Machining and Manufacturing](#)

Please note:

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