



# Academic & Career **PATHWAYS**

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

### **Computer Integrated Machining and Manufacturing (CIMM)**

#### **Die Making – Part-Time Advising Guide**

This program, designed by MCC's Precision Machining Consortium industry partners, teaches the skills needed to build and maintain dies. Die Makers fabricate stamping, cutting, and forming dies that build the products used in everyday items such as cars, toasters, fishing boats, and rifles. We are certified by the National Institute for Metalworking Skills (NIMS).

Complete all the courses below to earn the A.A.S degree and the highlighted courses only to earn the **Computer Integrated Machining and Manufacturing - Advanced Computer Integrated Machining and Manufacturing – Certificate.**

	Course	Degree Requirements Met	Credits	Action Steps
<b>Semester 1</b>				
<input type="checkbox"/>	CIMM 100_Fundamentals of Speech	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	
<b>Total Semester Credits</b>			<b>8</b>	
<b>Semester 2</b>				
<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	
<b>Total Semester Credits</b>			<b>7</b>	
<b>Semester 3</b>				
<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 or higher <b>Choose one</b>	General Education Requirement	3	
<b>Total Semester Credits</b>			<b>8</b>	
<b>Semester 4</b>				
<input type="checkbox"/>	CIMM 121_CNC Lathe Operation Fundamentals	Program Requirement	4	▪ Meet with Student Success Advisor
<input type="checkbox"/>	ENGL 101_Composition & Reading I	General Education Requirement	3	
<b>Total Semester Credits</b>			<b>7</b>	
<b>Semester 5</b>				
<input type="checkbox"/>	CIMM 225_MasterCAM I	Program Requirement	3	▪ Meet with Student Success Advisor
<input type="checkbox"/>	COMM 100_Introduction to Machining and	General Education	3	



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	Manufacturing	Requirement		
<input type="checkbox"/>	CIMM 154_Cutter Grinding or CIMM 155_Grinding Operations <b>Choose one</b>	Program Requirement	2-3*	
<b>Total Semester Credits</b>			<b>8-9*</b>	
<b>Semester 6</b>				
<input type="checkbox"/>	ENGL 215_Technical Writing	General Education Requirement	3	<ul style="list-style-type: none"> <li>▪ Meet with Student Success Advisor</li> </ul>
<input type="checkbox"/>	CIMM 141_EDM Technologies	Program Requirement	4	
<input type="checkbox"/>	CIMM 231-238 <b>Choose one</b>	Program Requirement-Choose 1 Course	1	
<b>Total Semester Credits</b>			<b>8</b>	
<b>Semester 7</b>				
<input type="checkbox"/>	CIMM 201_Metallurgy	Program Requirement	3	<ul style="list-style-type: none"> <li>▪ Meet with Student Success Advisor</li> <li>▪ Meet with <a href="#">Career Center</a></li> <li>▪ Complete <a href="#">Civics Exam</a> with 70% or higher</li> </ul>
<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 <b>Choose one</b>	General Education Requirement/Civics	3	
<b>Total Semester Credits</b>			<b>9</b>	
<b>Semester 8</b>				
<input type="checkbox"/>	CIMM 260_Die Making	Program Requirement	5	<ul style="list-style-type: none"> <li>▪ Meet with Student Success Advisor</li> <li>▪ <a href="#">Apply</a> for Graduation</li> <li>▪ Apply for jobs</li> </ul>
<input type="checkbox"/>	MATH 104_Technical Mathematics II or MATH 150_PreCalculus or higher <b>Choose one</b>	General Education Requirement	3-5*	
<b>Total Semester Credits</b>			<b>8-10*</b>	
<b>Credits Required for A.A.S. Degree</b>			<b>63*</b>	
<b>Credits Required for Certificate</b>			<b>34 – 38*</b>	
<i>*The A.A.S. in Computer Integrated Machining and Manufacturing requires a minimum of 63* 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:

Please note:

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