



Academic & Career **PATHWAYS**

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

Computer Integrated Machining and Manufacturing (CIMM) Mold Making – Full-Time Advising Guide

This program, designed by MCC's Precision Machining Consortium industry partners, prepares a student for a career in building and maintaining molds. Molds form the parts used in everyday articles such as cell phones, cars, pace makers, televisions, and many more. 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 | |
| <input type="checkbox"/> | CIMM 122_ CNC Mill Operation Fundamentals | Program Requirement | 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 | |
| Semester 2 | | | | |
| <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"/> | CIMM 121_ CNC Lathe Operation Fundamentals | Program Requirement | 4 | |
| <input type="checkbox"/> | ENGL 101_ Composition & Reading I | General Education Requirement | 3 | |
| <input type="checkbox"/> | MATH 103_ Technical Mathematics I MATH 120_ College Algebra or MATH150_ Precalculus <u>Choose one</u> | General Education Requirement | 3 | |
| Total Semester Credits | | | 15 | |
| 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 <u>Choose one</u> | General Education Requirement/Civics | 3 | ▪ Meet with Student Success Advisor ▪ Complete Civics Exam with 70% or higher |
| Total Semester Credits | | | 3 | |
| Semester 4 | | | | |
| <input type="checkbox"/> | CIMM 141_ EDM Technologies | Program Requirement | 4 | ▪ Meet with Student Success Advisor |
| <input type="checkbox"/> | CIMM 154_ Cutter Grinding | Program Requirement | 2 – 3* | |



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|--|---|--------------------------------|--------------|---|
| | or CIMM 155_ Grinding Operations Choose one | | | ▪ Meet with Career Center |
| <input type="checkbox"/> | MATH 104_ Technical Mathematics II or MATH 130_ Trigonometry Choose one | General Education Requirement | 3 | |
| <input type="checkbox"/> | CIMM 201_ Metallurgy | Program Requirement | 3 | |
| <input type="checkbox"/> | CIMM 225_ MasterCAM I | Program Requirement | 3 | |
| Total Semester Credits | | | 15-16 | |
| Semester 5 | | | | |
| <input type="checkbox"/> | ENGL 215_ Technical Writing | General Education Requirement | 3 | ▪ Meet with Student Success Advisor ▪ Apply for Graduation ▪ Apply for jobs |
| <input type="checkbox"/> | CIMM 231-238 Choose one | Program Requirement - Choose 1 | 1 | |
| <input type="checkbox"/> | CIMM 226_ MasterCAM II | Program Requirement | 3 | |
| <input type="checkbox"/> | COMM 100_ Fundamentals of Speech | General Education Requirement | 3 | |
| <input type="checkbox"/> | CIMM 265_ Mold Making | Program Requirement | 5 | |
| Total Semester Credits | | | 15 | |
| Credits Required for A.A.S. Degree | | | 63* | |
| *The A.A.S. in Computer Integrated Machining and Manufacturing (CIMM) Mold Making 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. | | | | |

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: [CIMM Mold Making](#)

Please note:

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