



**METROPOLITAN**  
COMMUNITY COLLEGE



**APPLIED TECHNOLOGY  
& MANUFACTURING**

# Academic & Career **PATHWAYS**

## **Associate of Applied Science (AAS)**

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

#### **Die Making – 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). For more information, please refer to <https://mcckc.edu/programs/computer-integrated-machining/>.

Complete all the courses below to earn the AAS degree and the highlighted courses only to earn the Mill Certificate.

| Course   | Degree Requirements Met | Credits   | Action Steps   |
|--|-------------------------|-----------|--|
| <b>Semester 1</b>  |                         |           |  |
| <input type="checkbox"/> CIMM 100 Intro to Machining & 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 Intro to Health & Safety for General Industry  | Program Requirement     | 1         |  |
| <b>Total Credits</b>   |                         | <b>15</b> |  |
| <b>Semester 2</b>  |                         |           |  |
| <input type="checkbox"/> CIMM 106 Geometric Dimensioning 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       | 3         |  |
| <input type="checkbox"/> MATH 103 Technical Mathematics I <b>OR</b><br>MATH 120 College Algebra <b>OR</b><br>MATH 150 Precalculus<br><b>Choose one</b> | General Education-Math  | 3         |  |
| <b>Total Credits</b>   |                         | <b>15</b> |  |
| <b>Semester 3 - Summer</b>   |                         |           |  |
| <input type="checkbox"/> COMM 100 Fundamentals of Speech   | General Education       | 3         |  |
| <b>Total Credits</b>   |                         | <b>3</b>  |  |
| <b>Semester 4</b>  |                         |           |  |
| <input type="checkbox"/> ENGL 215 Technical Writing  | General Education       | 3         | • Meet with Student Success Advisor<br>• Meet with <a href="#">Career Center</a> |
| <input type="checkbox"/> CIMM 225 MasterCAM I  | Program Requirement     | 3         |  |
| <input type="checkbox"/> CIMM 141 EDM Technologies   | Program Requirement     | 4         |  |
| <input type="checkbox"/> CIMM 154 Cutter Grinding <b>OR</b><br>CIMM 155 Grinding Operations<br><b>Choose one</b>                                       | Program Requirement     | 2-3       |  |
| <input type="checkbox"/> CIMM 201 Metallurgy   | Program Requirement     | 3         |  |

| Total Credits  |  |                          | 15-16 |  |
|--|--|--------------------------|-------|--|
| <b>Semester 5</b>  |  |                          |       |  |
| <input type="checkbox"/>   | CIMM 226 MasterCAM II  | Program Requirement      | 3     | <ul style="list-style-type: none"> <li>• Meet with Student Success Advisor</li> <li>• Complete <a href="#">Civics Exam</a> with 70% or higher</li> <li>• <a href="#">Apply</a> for Graduation</li> <li>• Apply for jobs</li> </ul> |
| <input type="checkbox"/>   | <a href="#">CIMM 231-238</a><br><i>Choose one</i>  | Program Requirement      | 1     |  |
| <input type="checkbox"/>   | CIMM 245 Tool, Die, Or Mold Maker  | Program Requirement      | 5     |  |
| <input type="checkbox"/>   | HIST 120 U.S. History to 1865 <b>OR</b><br>HIST 121 U.S. History since 1865 <b>OR</b><br>POLS 136 Intro to U.S. National Politics<br><b>Choose one</b> | General Education-Civics | 3     |  |
| <input type="checkbox"/>   | MATH 104 Technical Mathematics II <b>OR</b><br>MATH 130 Trigonometry <b>OR</b><br>MATH 150 Precalculus<br><b>Choose one</b>                            | General Education-Math   | 3-5   |  |
| Total Credits  |  |                          | 15-17 |  |
| Credits Required for A.A.S. Degree   |  |                          | 62*   |  |
| Credits Required for Mill Certificate  |  |                          | 17    |  |
| <i>*The AAS in CIMM Die Making requires a minimum of 62 credit hours for graduation. 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 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 student success advisor to develop an individualized completion plan that best meets their goals, interests, and objectives.

Please note:

- Courses may require a prerequisite or appropriate placement, see the [Academic Catalog](#) for additional information.
- Meet with a student success advisor to determine the best option for the mathematics requirement.