# Computer Integrated Machining & Manufacturing

**Offered at MCC-Business & Technology**

## Lathe Certificate

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Semester Taken</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>COLL 100</td>
<td>First Year Seminar</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIMM 100</td>
<td>Introduction to Machining &amp; Manufacturing</td>
<td>3</td>
<td></td>
<td></td>
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<tr>
<td>CIMM 105</td>
<td>Introduction to Blueprint Reading</td>
<td>2</td>
<td></td>
<td></td>
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<tr>
<td>CIMM 110</td>
<td>Manual Lathe Operations</td>
<td>3</td>
<td></td>
<td>CIMM 100 with a C or better or current enrollment</td>
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<tr>
<td>CIMM 121</td>
<td>CNC Lathe Operation Fundamentals</td>
<td>4</td>
<td></td>
<td>CIMM 110</td>
</tr>
<tr>
<td>CIMM 150</td>
<td>Lathe Internship &amp; Co-Op or</td>
<td>3-4</td>
<td></td>
<td>CSIS 100, CIMM 100/105, 110, 121, or concurrent enrollment and a “C” or better in the prerequisite classes (CIMM 150)</td>
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<tr>
<td>CIMM 160</td>
<td>Advanced Lathe Operations</td>
<td></td>
<td></td>
<td>CSIMM 121 or concurrent enrollment (CIMM 160)</td>
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<tr>
<td>CSIS 100</td>
<td>Digital Literacy</td>
<td>2</td>
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</table>

**Total Credit Hours Required**: 18-19

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**Non-Degree Related Courses**

Advisor/Counselor/Evaluator__________________________ Date______________________

_____ Hrs Earned _____ MCC GPA _____ Hrs Enrolled _____ Hrs in Res _____ Hrs Needed

**TO GRADUATE THE STUDENT MUST SUCCESSFULLY COMPLETE THE FOLLOWING:**

- Apply for Graduation
- Missouri Constitution Requirement
- Raise/Maintain GPA to 2.0
- Additional courses to meet total credit hour requirement (including current coursework)
- Additional courses to meet the 15 credit hour residency requirement
- Any course substitutions/waivers must be approved using an “Student Exception to Graduation” form