COMPUTER INTEGRATED MACHINING

Right Skills Now Certificate, 23 Credits

This is an entry-level certificate, providing a pathway to the longer CIM diploma and A.A.S. degree. It provides an introduction to multiple elements of CNC production, including working with engineering drawings, CNC programming, lathe turning, vertical milling and grinding. Additionally, there will be an internship component to the program, thus making it a Right Skills Now academic award. During this certificate, learners will have the opportunity to receive national credentials from the National Institute for Metalworking Skills (NIMS). Below is a suggested course sequence for students starting in the fall – this may vary depending on class availability, the learner’s schedule or other factors. **NOTE:** All program plans are preliminary and curriculum may change without notice. Your catalog of record may have different requirements.

**Below is the recommended course sequence for students who start in the FALL.**

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIM 1102</td>
<td>CNC Programming I</td>
<td>2</td>
</tr>
<tr>
<td>CIM 1103</td>
<td>Lathe Turning I</td>
<td>2</td>
</tr>
<tr>
<td>CIM 1104</td>
<td>Vertical Milling I</td>
<td>2</td>
</tr>
<tr>
<td>CIM 1106</td>
<td>Machine Tool Theory I</td>
<td>1</td>
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<tr>
<td>CIM 1150</td>
<td>Machining Computations</td>
<td>2</td>
</tr>
<tr>
<td>CIM 1207</td>
<td>Interpreting Engineering Drawings</td>
<td>2</td>
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<tbody>
<tr>
<td>CIM 1107</td>
<td>CIM Internship</td>
<td>2</td>
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<tr>
<td>CIM 1202</td>
<td>CNC Programming II</td>
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<tr>
<td>CIM 1203</td>
<td>Lathe Turning II</td>
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<td>CIM 1204</td>
<td>Vertical Milling II</td>
<td>2</td>
</tr>
<tr>
<td>CIM 1206</td>
<td>Machine Tool Theory II</td>
<td>2</td>
</tr>
</tbody>
</table>

**Additional Information**

College readiness classes or prerequisites may be required for some students/courses. **Be sure to meet with a program advisor.**

**Program Student Learning Outcomes:**
1. Operate industry-specific computer software
2. Demonstrate computer machining skills
3. Develop safe machining practices
4. Produce quality machined parts
5. Evaluate the quality of machined parts against industry standards

**Program Location:** Faribault or North Mankato

**Admission Date:** Fall

**For more information:** (507) 389-7200 | admissions@southcentral.edu

**Program Advisors**

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