Automated Machining Certificate - 16 credits
Program Area: Integrated Manufacturing Machine Tool (Fall 2024)

***REMEMBER TO REGISTER EARLY***

Program Description
This 16-credit certificate provides advanced training for people already working as machinists. It gives them a chance to improve their skills with the latest fully automated machine tools available today. The CNC machines will be set up and programmed keeping lights out machining in mind. CAM will also be used to create programs for these machines.

Required Courses
<table>
<thead>
<tr>
<th>Number</th>
<th>Name</th>
<th>Credits</th>
<th>Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTCC 2600</td>
<td>CNC Automation Programming</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>MTCC 2602</td>
<td>Swiss Automation</td>
<td>3</td>
<td></td>
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<tr>
<td>MTCC 2604</td>
<td>CNC Mill/Turn Application</td>
<td>4</td>
<td></td>
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<tr>
<td>MTCC 2606</td>
<td>CNC 4 Axix Horizontal Automation</td>
<td>4</td>
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<tr>
<td>Elective Credits</td>
<td>Choose 4 elective credits from any MTCC course.</td>
<td>4</td>
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</tbody>
</table>

Total Credits 16

Program Outcomes
- Manufacture mating parts and assemblies
- Perform set ups and use milling fixtures to manufacture parts
- Setup and machine compound angles using various processes
- Build jigs and fixtures to complete manufacturing processes
- Manufacture and inspect quality products

Pre-program Requirements
Completion of an AAS or Diploma degree in the Machine Technology program and/or instructor’s consent.

Successful entry into this program requires a specific level of skill in the areas of English, reading, and mathematics. Program entry will depend, in part, on meeting the prerequisites listed below:

English/Reading:
- Eligible for ENGL 1106 - College Composition I, or
- Completion of ENGL/READ 0950/0955 (or equivalent or higher). ENGL/READ 0950/0955 may be taken concurrently with Semester I coursework.

Mathematics:
- A score of 250 or higher on the Arithmetic portion of the Accuplacer.

There are other ways to qualify. Visit Course Placement (lsc.edu/course-placement) to find out more.

For interpretation of test results and selection of appropriate coursework; or general information about the program, admissions, financial aid, and getting started at LSC, contact the professional advising team (advising@lsc.edu) or 218-733-7601
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For more information about the Automated Machining Certificate including course descriptions, course prerequisites, and program report, see the program website (https://degrees.lsc.edu/cnc-machine/)

or

Contact Faculty Advisor Nathan Zobel (nathan.zobel@lsc.edu) at 218-733-7732

All courses in diploma and/or certificate programs are acceptable for credit toward Lake Superior College degree programs as indicated on individual program planners. This is not a contract; Lake Superior College reserves the right to change the planner as necessary. This document is available in alternative formats upon request, by contacting Disability Services or (218) 733-7650 or MRS/TTY (800) 627-3529.