

Manual Machinist Certificate - 30 credits

Program Area: Integrated Manufacturing Machine Tool (Fall 2020)

REMEMBER TO REGISTER EARLY

Program Description

This 30-credit certificate trains students to work in a maintenance environment. Students will learn complex setups and machining and inspection of parts made on vertical and horizontal mills, lathes, and grinders. Designing and building jugs and fixtures necessary to these parts will be covered as well as the materials to use in there construction.

Program Outcomes

- Manufacture mating parts and assemblies
- Perform setups and use milling fixtures to manufacture parts
- Set up and machine compound angles using various processes
- Build jugs and fixtures to complete manufacturing processes
- Manufacture and inspect quality product

Required Courses

Number	Name	Credits	Term
INMG 1400	Introduction to Manufacturing Technology	4	
INMG 1410*	Mechanical Blueprint Reading	3	
MTCC 1600	Engineering Materials	1	
MTCC 1603*	Turning	2	
MTCC 1604*	Milling	2	
MTCC 1608	Toolroom Machining I	3	
MTCC 1505	Surface Grinder I	2	
MTCC 1520	Cyndrical Grinding	1	
MTCC 1606*	Horizontal Milling and Indexing	1	
MTCC 1614*	Milling II	2	
MTCC 1616*	Turning II	2	
MTCC 1618*	Toolroom Machining II	3	
MTCC 1622*	Maintenance Machining	3	
MTCC 2460	Tool and Cutter Grinding	1	

Total Credits

30

*Requires a prerequisite or a concurrent course

Pre-program Requirements

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

English/Reading:

- A score of 250 or higher on the reading portion of the Accuplacer, or
- Completion of ENGL/READ 0950 or 0955 (or equivalent course or higher). ENGL/READ 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 <u>LSC Accuplacer</u> (Isc.edu/Accuplacer) 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* (pat@lsc.edu) or 218-733-7601



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For more information about the Manual Machinist Certificate including course descriptions, course prerequisites, and program report, see the program website (https://degrees.lsc.edu/machinist/)

or

Contact Faculty Advisor Max Udovich (max.udovich@lsc.edu) at 218-733-7732

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