

# Manual Machinist Certificate - 30 credits

Program Area: Integrated Manufacturing Machine Tool (Fall 2021)

#### \*\*\*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	4	
	Manufacturing Technology		
INMG 1410*	Mechanical Blueprint	3	
	Reading		
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	1	
	Indexing		
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:

- 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 <u>Course Placement</u> (Isc.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 <u>professional advising team</u> (advising@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 <u>program website</u> (https://degrees.lsc.edu/machinist/)