

Machine Technology CNC Programmer Diploma - 64 credits

Program Area: Integrated Manufacturing Machine Tool (Fall 2025)

REMEMBER TO REGISTER EARLY

Program Description

The CNC Machine Programmer program is designed to prepare the student for employment as a CNC Machinist/-Programmer. Skill development includes performing basic floor programming to produce a part to specifications, setup and operation of CNC machines, instruction in inspection and statistical process control, and program parts designed using a CAD/CAM computer system.

Program Outcomes

- Perform a basic setup and operate different types of manual metal working machines
- Write basic programs and operate different types of CNC metal working machines
- Perform mathematical calculation of shop problems
- Use basic CAD and CAM computer programs to generate CNC programs to be used on machine tools
- Interpret all basic drawings and blueprints
- Build basic machine parts and tools

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 ENLG 1106 College Composition I, or
- Composition I, 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 Course Placement (Isc.edu/course-placement) to find out more.

Required Con	urses
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Required Courses				
	Name	Credits	Term	
CADE 1468*	SolidWorks I	3		
INMG 1400	Introduction to Manufacturing Technology	4		
INMG 1410*	Mechanical Print Reading	3		
INMG 1420	Design Application Concepts I	3		
WLDG 1560	Gas Metal Arc Welding I	3		
MTCC 1603*	Turning	2		
	Milling	2		
INMG 1412*	Advanced Mechanical Blueprint Reading	3		
MTCC 1432*	Quality Methods	2		
MTCC 1505*	Surface Grinder	2		
MTCC 1620	CNC Basic Programming	2		
MTCC 2504*	CAD CAM	3		
MTCC 1600	Engineering Materials	1		
MTCC 2502*	CNC Turning	3		
MTCC 2540*	CNC Machine Center 3 Axis	3		
MTCC 2560*	Advanced CNC Mill 4 Axis	3		
MTCC 2562*	CNC Mill/Turn Live Tooling	3		
MTCC 2564*	CNC Horizontal 4 Axis	3		
COMM 1601	Interviewing Procedure and Practice	1		
INMG 1422*	Design Application Concepts II	3		
MTCC 1520*	Cylindrical Grinding	1		
MTCC 1530*	Water Jet Cutting Processes	2		
MTCC 2500*	CNC Mill Conversational	2		
	Wire EDM	2		
MTCC 2572*	Swiss Automatic	3		
MTCC 2506*	Advanced CAM	2		
Total Credi	ts	64		

*Requires a prerequisite or a concurrent course



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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

For more information about the Machine Technology CNC Programmer Diploma including course descriptions, course prerequisites, the program report, and potential career opportunities, see the <u>program website</u> (https://www.lsc.edu/degrees/cnc-programmer--machine-technology-diploma/)

or

Contact Faculty Advisor Nathan Zobel (nathan.zobel@lsc.edu) or 218-733-6827



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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 <u>Student Accessibility Services</u> or (218) 733-7650 or MRS/TTY (800) 627-3529.