



Machine Technology CNC Programmer Diploma - 64 credits

Program Area: Integrated Manufacturing Machine Tool (Fall 2016)

*****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:

- A score of 78 or higher on the reading comprehension 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.

Math:

- A score of 33 or higher on the **Elementary Algebra Skills** portion of the Accuplacer, or
- Completion of MATH 0520 (or equivalent course or higher). MATH 0520 may be taken concurrently with Semester I coursework.

REQUIRED COURSES			
Number	Name	Credits	Term
INMG 1400	Introduction to Manufacturing Technology	4	
INMG 1410	Mechanical Blueprint Reading	3	
INMG 1420	Design Application Concepts I	3	
CADE 1468	SolidWorks I	3	
WLDG 1560	Gas Metal Arc Welding I	3	
INMG 1412*	Advanced Mechanical Blueprint Reading	3	
INMG 1422	Design Application Concepts II	3	
MTCC 1432*	Quality Methods	2	
MTCC 1505*	Surface Grinder	2	
MTCC 1620	CNC Basic Programming	2	
MTCC 2504*	CAD CAM	3	
MTCC 2500*	CNC Mill Conversational	2	
MTCC 1600	Engineering Materials	1	
MTCC 1603*	Turning	2	
MTCC 1604*	Milling	2	
MTCC 2502*	CNC Turning	3	
MTCC 2506*	Advanced CAM	2	
MTCC 2540*	CNC Machine Center 3 Axis	3	
MTCC 2564*	CNC Horizontal 4 Axis	3	
MTCC 1520*	Cylindrical Grinding	1	
MTCC 2560*	Advanced CNC Mill 4 Axis	3	
MTCC 2562*	CNC Mill/Turn Live Tooling	3	
MTCC 2570	Wire EDM	2	
MTCC 2572*	Swiss Automatic	3	
MTCC 1530	Water Jet Cutting Processes	2	
COMM 1601	Interviewing Procedure and Practice	1	
TOTAL CREDITS		64	

*Requires a prerequisite or a concurrent course

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 a professional advisor, pat@lsc.edu or 218-733-7601



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For more information about the Machine Technology CNC Programmer AAS Degree including course descriptions, course prerequisites, the gainful employment disclosure, and potential career opportunities, see program Website: <https://degrees.lsc.edu/cnc-programmer/>

- or -

Contact Faculty Advisors, Max Udovich: m.udovich@lsc.edu or 218-733-7732 or
Randy Antonich: randy.antonich@lsc.edu or 218-733-7641



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