

Lake Superior College

Program Planner

Created on: 06/09/06

Updated: 02/10/11

Effective: *Fall 2011*

Qualified applicants should be aware that program class sizes are limited, which may delay acceptance into the program.

You may be required to complete additional (or less) coursework, dependent upon the results of your Computerized Placement Test (CPT) and/or previous coursework completed or certifications earned.

Program: **Integrated Manufacturing – Machine Technology CNC Programmer**

Degree Type: **Diploma**

Total Required Credits: **64**

Pre-program Requirements

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

English:

- A score of 86 or higher on the Sentence Skills portion of the CPT, OR
- Completion of ENGL0460 or its equivalent transfer course or higher.
- If required, ENGL0460 may be taken concurrently with Semester I coursework.

Mathematics:

- A score of 36 or higher on the Elementary Algebra Skills portion of the CPT, OR
- Completion of MATH0450 or its equivalent transfer course or higher.
- If required, MATH0450 may be taken concurrently with Semester I coursework.

Reading:

- A score of 78 or higher on the Reading Comprehension portion of the CPT, OR
 - Completion of READ0465 or its equivalent transfer course or higher.
 - If required, READ0465 may be taken concurrently with Semester I coursework.
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Semester I

Course ID#	Course Title (Pre-reqs)	Term	Credits	Grade/ Term
FYE1000	Intro to College (None)	F/S	1	
CADE1468	SolidWorks I (ENGL0460, MATH0450, READ0465, or concurrent enrollment)	F/S	3	

INMG1400	Introduction to Manufacturing Technology (None)	F/S	4	
INMG1410	Mechanical Blueprint Reading (None)	F/S	3	
INMG1420	Design Application Concepts I (None)	F	3	
WLDG1560	Gas Metal Arc Welding I (None)	F/S	3	
Total Credits for Term			17	

Semester II

Course ID#	Course Title (Pre-reqs)	Term	Credits	Grade/ Term
INMG1412	Advanced Mechanical Blueprint Reading (INMG1410)	S	3	
INMG1422	Design Application Concepts II (None)	S	3	
MTCC1505	Surface Grinder (INMG1400)	F/S	2	
MTCC1603	Turning (INMG1400)	F/S	2	
MTCC1604	Milling (INMG1400)	F/S	2	
MTCC1620	CNC Basic Programming (None)	S	2	
MTCC2500	CNC Mill Conversational (MTCC1620)	F/S	2	
Total Credits for Term			16	

Semester III

Course ID#	Course Title (Pre-reqs)	Term	Credits	Grade/ Term
MTCC1432	Quality Methods (INMG1400)	F/S	2	
MTCC1600	Engineering Materials (None)	F	1	
MTCC2460	Tool and Cutter Grinding (None)	F/S	1	
MTCC2502	CNC Turning (MTCC1620)	F/S	3	
MTCC2504	CAD CAM (CADE1468)	F/S	3	
MTCC2506	Advanced CAM (MTCC2504)	F/S	2	
MTCC2540	CNC Machine Center 3 Axis (MTCC2440 or MTCC2500)	F/S	3	
Total Credits for Term			15	

Semester IV

Course ID#	Course Title (Pre-reqs)	Term	Credits	Grade/ Term
MTCC1520	Cylindrical Grinding (INMG1400)	F/S	1	
MTCC2560	Advanced CNC Mill 4 Axis (MTCC2540)	F/S	3	
MTCC2562	CNC Mill/Turn Live Tooling (MTCC2502)	F/S	3	
MTCC2564	CNC Horizontal 4 Axis (MTCC2560 or concurrent enrollment)	F/S	3	
MTCC2570	Wire EDM (None)	F/S	2	
MTCC2572	Swiss Automatic (MTCC2562 or concurrent enrollment)	F/S	3	
COMM1601	Interviewing Procedure and Practice (None)	S	1	
Total Credits for Term			16	

- *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 can be made available in alternative formats, such as large print, Braille, or audio tape, by calling 733-7650 or MRS/TTY 800-627-3529.*