

Lake Superior College

Program Planner

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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 - Engineering
CAD Technology**

Degree Type: **Diploma**

Total Required Credits: **60**

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:

- 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.

Semester I

Course ID#	Course Title (Pre-reqs)	Term	Credits	Grade/ Term
FYE1000	Intro to College (None)	F	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
CADE1407	AutoCAD I (ENGL0460, MATH0450, and READ0465 or concurrent enrollment)	F/S	3	
CADE1450	Mechanical Details (INMG1410 or instructor's consent)	F/S	3	
CADE1480	Industrial/Mechanical CAD Applications I (CADE1450 or concurrent enrollment)	F/S	3	
INMG1412	Advanced Mechanical Blueprint Reading (INMG1410)	F/S	3	
	Technical Elective (Refer to Table 1)	F/S	3	
Total Credits for Term			15	

Semester III

Course ID#	Course Title (Pre-reqs)	Term	Credits	Grade/ Term
CADE1440	Inventor I (CADE1407 or concurrent enrollment)	F/S	3	
CADE1482	Industrial/Mechanical CAD Applications II (CADE1480)	F/S	3	
CADE2400	AutoCAD II (CADE1407)	F/S	3	
CADE2460	Jigs and Fixtures (CADE1407 or CADE1468 or concurrent enrollment or instructor's consent)	F/S	3	
	Technical Elective (Refer to Table 1)	F/S	3	
Total Credits for Term			15	

Semester IV

Course ID#	Course Title (Pre-reqs)	Term	Credits	Grade/ Term
CADE1442	Inventor II (CADE1440)	F/S	3	
CADE2472	AutoCAD Design Project (CADE2400 or concurrent enrollment)	F/S	3	
COMM1601	Interviewing Procedure and Practice (None; computer skills necessary)	F/S	1	
	Technical Electives (Refer to Table 1)	F/S	6	
Total Credits for Term			13	

Table 1: Technical Electives

Course ID#	Course Title (Pre-reqs)	Term	Credits	Grade/ Term
CADE1470	SolidWorks II (CADE1468)	F/S	3	
CADE2407	Engineering Technology Internship (Instructor's consent)	ARR	1-7	
CADE2420	Electrical/Electronic Drawings (CADE1407 or concurrent enrollment or instructor's consent)	F/S	3	
CADE2430	Industrial Piping Layout (CADE2400 or instructor's consent)	F/S	3	
CADE2436	Structural Detailing and Design (CADE1407 or CADE1468 or instructor's consent)	F/S	3	
INMG1422	Design Application Concepts II (INMG1420)	F/S	3	

- *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 733-7705/TTY.*