

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: **Engineering CAD Technology**

Degree Type: **Certificate**

Total Required Credits: **24**

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.
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NOTE: This certificate is designed to provide a basic working knowledge of CAD and/or enhance the education of a student who may occasionally come in contact with engineering CAD technology through another related technical field of study. This certificate is not intended to take the place of either the two-year AAS degree or the two-year diploma degree.

Semester I

Course ID#	Course Title (Pre-reqs)	Term	Credits	Grade/ Term
CADE1407	AutoCAD I (ENGL0460, MATH0450, and READ0465 or concurrent)	F/S	3	
CADE1450	Mechanical Details (INMG1410 or instructor's consent)	F/S	3	
CADE1468	SolidWorks I (ENGL0460, MATH0450, READ0465, or concurrent)	F/S	3	
INMG1410	Mechanical Blueprint Reading (None)	F/S	3	
Total Credits for Term			12	

Semester II

Course ID#	Course Title (Pre-reqs)	Term	Credits	Grade/ Term
CADE2400	AutoCAD II (CADE1407)	F/S	3	
CADE2472	AutoCAD Design Project (CADE2400 or concurrent)	F/S	3	
CADE2999	Special Topics in Mechanical Drafting and Design (CAD) (Dependent upon course)	F/S	3	
	Technical Elective (Refer to Table 1)	F/S	3	
Total Credits for Term			12	

Table 1: Technical Electives

Course ID#	Course Title (Pre-reqs)	Term	Credits	Grade/ Term
CADE2407	Engineering Technology Internship (Instructor's consent)	ARR	1-7	
INMG1420	Design Application Concepts I (None)	F	3	
MTCC2504	CAD CAM (CADE1468)	F/S	3	
WLDG1560	Gas Metal Arc Welding I (None)	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 MRS/TTY 800-627-3529.