

## SolidWorks (CAD) Certificate - 18 credits

Program Area: Engineering CAD Technology (Fall 2019)

**\*\*\*REMEMBER TO REGISTER EARLY\*\*\***

### Program Description

This SolidWorks certificate prepares students for the SolidWorks (CSWA) or (CSWP-Weldments) Exam. This certificate is also intended/recommended for people who are already in a manufacturing related field or who have earned a certificate, diploma, or degree in a manufacturing related program of study.

*SolidWorks software is the standard in 3D design and mechanical engineering at thousands of companies worldwide. Engineers, designers and CAD technicians create 3D models and 2D drawings ranging from individual parts to assemblies with thousands of parts*

### Program Outcomes

- Design products for manufacture using 2D and 3D standards
- Apply orthographic CAD design procedures to working drawings
- Perform advanced CAD software applications
- Create a capstone design project incorporating advanced CAD and industrial/mechanical applications

### Required Courses

Number	Name	Credits	Term
CADE 1450*	Mechanical Details	3	
CADE 1468	SolidWorks I	3	
CADE 1470	SolidWorks II	3	
INMG 1410	Mechanical Blueprint Reading	3	
Choose one from the following:		3	
CADE 2476	SolidWorks Design Project		
MTCC 2504*	CAD CAM		
or			
WLDG 1500	Blueprint Reading for Welders		
Choose one from the following:		3	
CADE 2500	SolidWorks Associate Exam Preparation		
CADE 2502	SolidWorks Weldments Exam Preparation		

**Total Credits** **18**

\*Requires a prerequisite or a concurrent course

### 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.

#### Mathematics:

- 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.

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 [professional advising team](#) at 218-733-7601



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For more information about the SolidWorks (CAD) Certificate including course descriptions, course prerequisites, the gainful employment disclosure, and potential career opportunities, see the [program website](#)

**or**

Contact Faculty Advisors, [Rich Kresky](#) at 218-733-7630 or [Rick Steel](#) at 218-733-6931



MINNESOTA STATE

CIP Code: 15.1302  
Minnesota State Program ID: 7234  
LSC Major ID: 5028

Created: 6/10/06  
AASC Approval: 2/12/2015  
Updated: 2/1/19

*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 Disability Services, [Disability Services](#) or (218) 733-7650 or MRS/TTY (800) 627-3529.*