

## SolidWorks (CAD) Certificate - 18 credits

Program Area: Engineering CAD Technology (Fall 2020)

**\*\*\*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		
or	or		
MTCC 2504*	CAD CAM		
or	or	3	
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 250 or higher on the reading 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 250 or higher on the Arithmetic portion of the Accuplacer.

There are other ways to qualify. Visit [LSC Accuplacer](http://lsc.edu/Accuplacer) (lsc.edu/Accuplacer) to find out more.

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](mailto:pat@lsc.edu) (pat@lsc.edu) at 218-733-7601



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For more information about the SolidWorks (CAD) Certificate including course descriptions, course prerequisites, the program report, and potential career opportunities, see the [program website](https://degrees.lsc.edu/solidworks/) (https://degrees.lsc.edu/solidworks/)

**or**

Contact Faculty Advisors, [Rich Kresky](mailto:richard.kresky@lsc.edu) (richard.kresky@lsc.edu) at 218-733-7630 or [Rick Steel](mailto:richard.steel@lsc.edu) (richard.steel@lsc.edu) at 218-733-6931



MINNESOTA STATE

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