



SolidWorks (CAD) Certificate - 18 credits

Program Area: Engineering CAD Technology (Fall 2018)

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:			
CADE 2476	SolidWorks Design Project	3	
or			
MTCC 2504*	CAD CAM		
or			
WLDG 1500	Blueprint Reading for Welders		
Choose one from the following:			
CADE 2500	SolidWorks Associate Exam	3	
or	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 pat@lsc.edu or 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 program website: <https://degrees.lsc.edu/solidworks/>

- or -

Contact Faculty Advisors, Rich Kresky: r.kresky@lsc.edu or 218-733-7630;
Rick Steel: r.steel@lsc.edu or 218-733-6931



MINNESOTA STATE

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