SolidWorks (CAD) Certificate - 18 credits

Program Area: Engineering CAD Technology (Fall 2024)

*****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 Print Reading	3	
Choose one CADE 2476* or MTCC 2504* or WLDG 1500	from the following: SolidWorks Design Project or CAD CAM or Blueprint Reading for Welders	3	
Choose one CADE 2500* CADE 2502*	from the following: SolidWorks Associate Exam Preparation SolidWorks Weldments Exam Preparation	3	
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:

- Eligible for ENGL 1106 - College Composition I, or
- Completion of ENGL/READ 0950/0955 (or equivalent or higher). ENGL/READ 0950/0955 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 Course Placement (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 (advising@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/)

or

Contact Faculty Advisor, Rick Steel (richard.steel@lsc.edu) at 218-733-6931

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

Created: 6/10/06
AASC Approval: 2/12/2015
Updated: 2/1/24

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