

# ENGINEERING COMPUTER AIDED DESIGN AND DRAFTING: SOLIDWORKS, CERTIFICATE OF ACHIEVEMENT

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The Certificate of Achievement in Engineering Computer-Aided Design and Drafting: SOLIDWORKS prepares students to work in the engineering industry to create technical drawings for the design of many different products, machines, and structures ranging in size from small microchips to large aircrafts. Students completing this program will be well versed in 3-D SOLIDWORKS drawing software, and will be prepared to take the Certified SOLIDWORKS Associate-Academic, and Certified SOLIDWORKS Professional examinations. Students earning the two Certifications in SOLIDWORKS will be able to enter their name in the industry database with a link to their resume. Furthermore, with the Professional SOLIDWORKS Certification students may obtain a business card from SOLIDWORKS which they can use during job interviews.

Course ID	Title	Units/ Hours
ENGR M04	Engineering Design/CAD	3
ENGR M07	SolidWorks I-Engr Mech Design	3
ENGR M08	SolidWorks II-Engr Design Practicum	3

To earn a Certificate of Achievement in Engineering Design and Drafting: SOLIDWORKS, students must complete 9 specified units.

Course ID	Title	Units/ Hours
Year 1: Fall or Spring Semester		
ENGR M04	Engineering Design/CAD	3
Year 2: Fall or Spring Semester		
ENGR M07	SolidWorks I-Engr Mech Design	3
ENGR M08	SolidWorks II-Engr Design Practicum	3

Upon successful completion of this program, students will be able to:

- demonstrate preparedness for the Certified SolidWorks Associate-Academic (CSWA-Academic), and Certified SolidWorks Professional (CSWP) examinations.
- demonstrate skills necessary in using AutoCAD's 2-D drawing software and SolidWorks 3-D modeling software to create technical drawings, plans, and designs in order to help the engineers and the architects with the design of any different products, machines, and structures.