



CURRICULUM GUIDE 2020-2021

COMPUTER AIDED DESIGN SKILLS: AUTOCAD AND SOLIDWORKS

Certificate of Completion in Computer Aided Design Skills: AutoCAD and SolidWorks

By completing this certificate students learn how to use Computer Aided Design (CAD) software to create 2D and 3D models and designs. Students develop competency in CAD software that is used in a variety of industries and occupations, including floor plans, mechanical drawings, technical drawings, engineering design, and other projects. The courses in this certificate build skill-sets that are in high demand in today's job market and can be used to reach career and/or academic goals. This certificate can provide students who are looking for employment the experience they need to stand out from the crowd. Students who are already employed discover that keeping up with the latest changes in CAD software increases their chances of career advancement.

Requirements for Certificate of Completion

- a) Complete all of the courses in the certificate.

Student Learning Outcomes

1. Proficiently use AutoCAD technology to produce drawings at professional industry standards.
2. Draw engineering parts and assemblies proficiently using SOLIDWORKS.
3. Apply dimensioning and tolerancing techniques in drawings and in an assembly.
4. Develop professional drawings for machining and assembling including title blocks.

ENGI-915	Advanced AutoCAD	54 hours
ENGI-916	Introduction to SolidWorks	<u>54 hours</u>
		108 hours