

COMPUTER-AIDED DRAFTING (CAD), CERTIFICATE

Program Code: CC.CAD

The Computer-Aided Drafting (CAD) certificate supports students to gain the skills needed to enter the workforce as drafters and design technicians in manufacturing, construction, and architectural settings. The program gives students the opportunity to develop skills and explore multiple drafting approaches and technologies. Many of the courses are part of the [Computer-Aided Manufacturing AAS](#).

Outcomes

Program Outcomes

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

- apply computer software applications to produce manufacturing, construction, and architectural-related documents to scale;
- create 2D and 3D CAD models;
- model CNC machining processes and generate G&M code;
- demonstrate fundamental competency using AutoCAD Inventor software;
- create solid models, assemblies, and drawings based on design intent;
- create and design construction documents used in Building Information Modeling;
- apply problem-solving skills to document a new product or process.

Requirements

Course	Title	Credits
Fall Term		
CDT-102	Sketching & Problem Solving	3
CDT-223	Inventor Fundamentals	3
MTH-050	Technical Mathematics I ¹	4
Credits		10
Winter Term		
CDT-103	Computer-Aided Drafting I	3
CDT-108A	Introduction to SolidWorks	3
CDT-130	Introduction to Fusion	2
Credits		8
Spring Term		
CDT-225	Advanced SolidWorks	3
CDT-240	Revit for Architecture	3
Credits		6
Total Credits		24

¹ Substitute college transfer courses for these courses if you plan to continue your education at a higher education institution. It is recommended that you consult with a faculty advisor or a staff member in Student Services for the transfer requirements of the specific advanced program or school.

Careers

Career opportunities include:

- CAD technician
- drafter
- architectural drafter
- mechanical drafter