COMPUTER AIDED DESIGN AND DRAFTING

Associate in Science
Career/Technical (Major Code: A2571)

Designed to provide students with the skills and technical knowledge requested by employers using CADD in a variety of disciplines. The program focuses on the development of CADD skills and problem-solving strategies in the development of two- and three-dimensional models. Additional engineering options allow students to acquire advanced CADD skills in areas of special interest.

Program Student Learning Outcomes

- Construct, modify and print existing drawings to meet industry standards.
- Use provided software to construct and analyze solid models.
- Use appropriate technical material to determine and correctly communicate drawing information.

Code	Title	Units
Program Requirements [1]		
CAD 220	INTRODUCTION TO CADD/CAM SYSTEMS	3
CAD 222	CAD MECHANICAL DESIGN I	3
CAD 223	CAD DETAILING AND DIMENSIONING	3
CAD 224	CAD MECHANICAL DESIGN II	3
CAD 230	INTRODUCTION TO SOLIDWORKS	3
CAD 231	SOLIDWORKS II	3
Total Units		**18**

Code	Title	Units
Recommended Electives		
ARCH 201	BEGINNING BUILDING INFORMATION MODELING	3
CAD 273	INTRO TO 3D MODELING FOR ANIMATION	3
CAD 274	INTRO TO 3D ANIMATION	3

[1] Some courses within this program may require additional coursework that must be completed prior to enrollment in these courses. Please consult the individual course listings for prerequisites and any other limitations on enrollment.

To earn an associate degree, additional general education and graduation requirements (https://catalog.swccd.edu/certificates-certifications-degrees-csuuc-requirements/) must be completed.