

# DESIGN TECHNOLOGY

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## Associate in Science

Career/Technical (Major Code: A2572)

Designed to provide the student with a background in several design technologies. The program trains the student in use of drafting software, mechanical design software, and 3D animation software. Students will design 3D models of mechanical parts and create 3D animated videos.

## Program Student Learning Outcomes

- Students will create a rendered animation with multiple sequences combined into single video file.
- Design a 3-dimensional solid model of a machine part from a dimensioned drawing using sketches, parameters, and constraints.

Code	Title	Units
<b>Program Requirements</b>		
CAD 220	INTRODUCTION TO CADD/CAM SYSTEMS	3
CAD 222	CAD MECHANICAL DESIGN I	3
CAD 230	INTRODUCTION TO SOLIDWORKS	3
CAD 231	SOLIDWORKS II	3
CAD 273	3D MODELING USING MAYA	3
CAD 274	3D ANIMATION USING MAYA	3
<b>Total Units</b>		<b>18</b>

Code	Title	Units
<b>Recommended Electives</b>		
CAD 223	CAD DETAILING AND DIMENSIONING	3
CAD 224	CAD MECHANICAL DESIGN II	3
ART 192	INTRODUCTION TO DIGITAL IMAGING	3
ARCH 201	BEGINNING BUILDING INFORMATION MODELING	3

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