

**ASSOCIATE IN SCIENCE**
**2018-2019**
**COMPUTER AIDED DESIGN & DRAFTING**

Drafters, and designers prepare technical drawings, designs, diagrams and specifications for a wide variety of commercial, industrial, and government projects. Computer hardware design, aerospace drafting and design, architectural design and drafting, electronics design, technical illustration and the design and drafting of such items as: disk drive mechanisms, cellular telephones, and medical equipment; are just a few of the areas of employment available for drafters and designers in our local area. Specializing in state-of-the-art CADD instruction, featuring AutoCAD, Revit, Civil 3-D, ACAD Mechanical, SolidWorks and Creo CAD tools, the CADD department at Evergreen Valley College offers a wide variety of course work designed for individuals wanting to upgrade and expand their existing technical skills and for new students wanting to prepare for employment in numerous CADD related fields. The CADD Technology department also offers certificate options and an Associate in Science Degree option.

A "C" grade or better is required in each CADD course and all major prerequisite courses for graduation and/or certificate options.

Program Learning Outcomes:

- Demonstrate knowledge in AutoDesk products (Inventor, AutoCAD/Mechanical/Civil 3D, and Revit), Creo, and SolidWorks CAD systems.
- Prepare for employment as an engineering technician/CAD drafter, in architectural engineering or in civil engineering and design at an entry level.

CADD	130	Fundamentals of AutoCAD	3.0
CADD	131	3-D Modeling and Design Using AutoCAD	2.0
CADD	133	Using Autodesk Inventor <b>or</b>	
CADD	139	Using SolidWorks	2.0
CADD	144A	Architectural Design and Drafting Using Revit Architecture	2.0
CADD	140A	Technical Graphics – Using CAD Tools	2.0
CADD	140B	Advanced Technical Graphics – Using CAD Tools	2.0
CADD	141	Design and Analysis Using Creo Parametric or SolidWorks	2.0
BIS	109	Microsoft Office <b>or</b>	
CIT	040	Web Design I: Internet Publishing	3.0
<u>Plus 12 units from the following:</u>			12.0
CADD	132	Using AutoCAD Mechanical	
CADD	134	Advanced Autodesk Inventor	
CADD	135	Design Using AutoCAD Civil-3D	
CADD	142	Geometrical Dimensioning and Tolerancing	
CADD	144B	Architectural Design and Drafting Using Revit Structure and MEP	
CADD	145	Landscaping Design Using CAD Tools	
CADD	146A	AutoCAD Software Updates	
CADD	150	CADD Document Management	
Major Requirements			30.0
Electives			6.0
G.E. Requirements			<u>24.0</u>
<b>Total Units</b>			<b>60.0</b>