

# GENERAL DESIGN CERTIFICATE

---

19 Semester Credit Hours; Curriculum: 0284

The General Design Certificate prepares students for general drafting positions using a variety of CAD software like AutoCAD, Inventor, Revit, and SolidWorks to design 2D and 3D CAD models and detail drawings. Possible job positions include CAD draftsman and general CAD designer.

Code	Title	Hours
<b>Courses for a Certificate</b>		
Select nineteen credit hours in CAD, FME or GIS courses from the following:		19
CAD 105	Industrial Design Engineering	
CAD 107	Introduction to 3D Printing	
CAD 116	Basic AutoCAD	
CAD 117	Intermediate AutoCAD	
CAD 118	Advanced AutoCAD	
CAD 134	Basic AutoCAD for Interior Design	
CAD 136	Advanced AutoCAD for Interior Design	
CAD 210	Industrial Design Techniques	
CAD 220	Introduction to Building Information Modeling - Revit	
CAD 224	Advanced Building Information Modeling - Revit	
CAD 228	Revit MEP – Mechanical, Electrical, Plumbing	
CAD 230	Introduction to SolidWorks	
CAD 232	Intermediate SolidWorks	
CAD 234	Advanced SolidWorks	
CAD 240	Introduction to Autodesk Inventor	
GIS/EAS 190	Geographic Information Systems I	
<b>Total Hours</b>		<b>19</b>

## Program Learning Outcomes

1. Create 2D drawings and 3D models for a variety of applications including: Architectural, Interior design, Building Information Modeling applications.
2. Evaluate computer aided design models based on critical thinking and problem solving skills.
3. Develop and present designs and prototypes to the class.