

Introduction to Design and Fabrication



Intro to CAD

Course Curriculum Proficiency Rubric

Power Objectives

P.O. #2: Utilize professional grade design software to create 3D models.

P.O. #3: Develop properly formatted working drawings.

Academic Vocabulary

- ☐ 2D sketch
- ☐ faces
- ☐ part file
- ☐ drawing file
- ☐ assembly model
- ☐ orthographic drawing
- ☐ dimensions

- ☐ notes
- ☐ section view
- ☐ detail drawing
- ☐ extrude
- ☐ revolve
- ☐ taper
- ☐ isometric

- ☐ scale
- ☐ hole
- ☐ center line
- ☐ hole call-out
- ☐ exploded assembly
- ☐ assembly
- ☐ PDF

Enduring Understandings

Students understand that...

- 3D models are a digital representation of real objects or objects that are yet to be created.
- 3D models are used to create working drawings for production purposes.
- 3D models and working drawings are a form of visual communication utilized by many different industries.

Essential Questions

- What are the advantages and disadvantages to utilizing 3D modeling software
- How does this tool help to communicate the ideas of designers?
- What industries/career fields may value the ability to operate 3D modeling software?