**ENGR 106 Advanced Computer Aided Design**

**Competencies**

Create tables

Draw Parametrically

Create Section Views and Graphic Patterns

Create standard and dynamic text blocks

Set up layouts for digital viewing and plotting to printers

Plot drawings using a variety of different plotters.

Create Annotative Objects

Incorporate External references into drawings

Create and edit Sheet sets

Create complex and accurate engineering drawings in CAD software

Transfer hand-drawings into CAD

Reverse-engineer physical objects into CAD drawings or objects

Understand and demonstrate the difference between different CAD modeling (polygonal, parametric, NURBs, etc..)

Generate 3D standard primitives

Create extrusions, revolutions, sweeps and lofts