

ES 100
Course Objectives

Content

Objectives

Three Dimensional Graphics

Students will be able to visualize in 3-D
Students will learn the principles of
Orthographic projection, Auxiliary View,
Sectioning, Dimensioning, and Fasteners

Parametric Solid Modeling

Students will learn the operating
principles of parametric modeling
using the ProEngineer software

Application Software

Students will learn the use of computer
application software such as Microsoft
word, excel, and PowerPoint

Engineering Principles

Students will learn the laws of
mechanics and energy, Force, Torque
Free body diagram, Lift, Drag

Design

A design project is assigned. The
students work in a team with other
students in every phase of the project,
data collection, design, and building the
project

Presentation

At the end of the semester, a schedule
will be developed for each team to
present their design package to the
department for evaluation