ME/IE 170 Professor Mike Philpot

Lecture: “Sketching for Engineers”
William Bullock, Professor and Chair, Industrial Design
Tuesday, Sep 6, 8:00-8:50 am 1320 DCL
Thursday Sep 8, 8:00-8:50 am 1320 DCL
Lab sections in 1009 MEL (EWS lab)

-Sketching
  What is a sketch?
  Why sketch? Advantages? Disadvantages?
  Materials, technique and speed
  Sketching lines, planes, squares and polygons

-Square; a 2D unit of measure
- Circles and ellipses; polygons
- Orthographic sketching (2D); target points, lines and planes
- Oblique sketching (3D)
- Isometric Sketching (3D)
- Perspective Sketching
  1 Point perspective (Parallel projection)
  2 Point perspective (Angular projection)
  3 Point Perspective

In class Sketch Assignment 3 a. In isometric drawing, begin with a rectilinear form 2” x 3” x 5”. By cutting away and removing material, create a new form (refer to illustrated sketch examples 1-12). Use light construction lines to sketch the form and dark finishing lines at edges where there is a change of plane. Create as many new forms as you have time to sketch. Print your name and the date legibly at the bottom right corner of your sketch. Turn in you finished sketch at the end of class.