CCE 201 - AutoCAD Basic Drawing Setup and command commands

Basic AutoCAD drawing setup

a. Units

b. OSNAP and other drawing settings (GRID off, Dynamic input on – all boxes checked, OSNAP options selected)

c. Layers (add new layers, associated line weights, colors, do not print VP or Construction layers). Usually need layers for major object, construction, text, Viewport, dimensions, etc. Follow ANSI for line weights.

d. Style (new style, name it, font - Romans, 01.25 text height, annotative, set current)

e. Set annotation scale in Model space (lower right hand corner)

f. Dimstyle

g. MLeaderstyle

h. Insert layout – ANSI A or B

i. Insert Vport on Viewport layer

j. Set Plot Scale of viewport and lock viewport

k. Pagesetup (set printer as DWG to PC3.PDF, monochrome, page offset if needed check preview). Save drawing – lastname_labNo.dwg

l. Start drawing: select current to start with, etc.

m. Use appropriate layers

n. Add leaders, splines, hatching, dimensions, text, etc.

o. Use basic commands: Line, Offset, Trim, Extend, Circle, Arc, Zoom: all, Hatch

p. Go to layout tab – preview and plot.

Key Commands:
Units, Layers, OSNAP, Style, Text, Mtext, Line, F8 (Ortho mode on/off), F3 (osnap on/off), Zoom (All, Extents, Window), Pan, Offset, Trim, Extend, Arc, Circle, Dimstyle, Dim (aligned, horizontal, etc.), Hatch, Vports, Pagesetup, MS, PS, Preview, Plot, Qsave, Save.

Annotation and Plot Scale:
Set model space and paper space (viewport) annotation scale (ratio for decimal units and engineering or architectural as appropriate).