

Course Number and Title: ARCH 150 / Intro to CADD I / 4.0 Credits

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PROJECT 1: Representation - Advanced AutoCAD, Digital Output

In class we discussed advanced tools and techniques for the representation of architectural drawings in AutoCAD 2010 as well as techniques necessary for the output of drawings via printing. Use the tools and techniques discussed – and explore other tools as needed within AutoCAD – to complete the following:

Assignment 2:

1. Check the course website for tutorials presented in class.
2. Survey the north interior elevation of the studio cubicles, being certain to note cut-through elements, floor plane and ceiling plane in addition to other important details and objects (windows, desks). Complete this survey in your sketchbook. Refer to the drawing from Week 1 to determine how much information to include in the elevation.
3. Draft the elevation survey information in AutoCAD 2010, utilizing the tools and techniques discussed in class in addition to appropriate line weights and layers.
 - a. Be certain to draft objects at their appropriate size and place them according to the dimensions surveyed.
 - b. Draft the elevation *adjacent* to the plan, using it as a guide. Try turning the plan into a *wblock* (**wblock**) for use as an underlay.
 - c. Add information to the plan that was overlooked (ie, dashed lines for hidden elements)
4. Recall that line weights as associated with drawing layers as discussed in class must be utilized according to the preset color-coded system which will be linked to the plot style file you set up
5. Set up individual 11"x17" layouts for the floor plan and elevation drawing.
 - a. One Layout should be named Plan, the other named Elevation.
 - b. Within each layout, set up a viewport at ½" scale, containing the appropriate drawing.
 - c. You may only plot from a PDF file. Create separate PDFs of each file to plot from.
 - d. Prior to plotting to the PDF, be sure to select the proper **Plot Style file**. If you are switching between computers, **be certain to transfer your .ctb file from your flash drive or computer**, otherwise your line weights will not plot properly.
 - e. Bring these two printed drawings to class; submit the .dwg and .pdf files.

Assignment Objectives:

Explore basic digital drafting tools in AutoCAD; develop a relationship between hand drafting conventions and their implementation in a digital workspace; understand the relationship between geometry, line weights, and consistency when drafting by hand and digitally.

Submission of Work:

- Assignment due on AW Storage at noon, Tues 4/13/10 (Sect 1) or Thurs 4/15/10 (Sect 2)
- The files submitted must be entitled **YourName_P1A2_Progress.dwg**, **YourName_P1A2_plan.pdf** and **YourName_P1A2_elevation.pdf**

