

Architecture Studio: 1st Year Spring

Spring 2012, CMU, Arch #48-105, M/W/F 1:30-4:20
Class Website: www.andrew.cmu.edu/course/48-105

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Off. Hr: M/W/F 12:30-1:00pm & by appt. in MM302

(2/12/12)

Project 1e: SHOP PROJECT: STACKS-STICKS-PLANES

ASSIGNMENT 1e: SHOP DRAWINGS (Due Mon. Feb. 6, 1:30)

Your assignment is to create a set of 11x17 “shop drawings” that will begin the construction process of your stand. You will receive a grade on the design of your stand based on these drawings (and another grade after it is built).

Work Flow:

1) Based on the feedback from your instructors and peers, finalize your design in model form (1:2 suggested). Be sure your stand: a) presents ideas about stacks/sticks/planes clearly, b) is stable and strong, c) has a functional display surface at 20”, and d) uses no more than 12 board feet of wood, as can be sawn out of “8/4” rough-sawn poplar wood planks.

2) Imagine ALL the drawings needed to present and to construct your project.

3) Lay out and create a DRAFT version of all drawings on 11x17 paper (trace suggested). The following drawings are suggested for most typical furniture, though your project may have unique parameters, and may require other, or special drawings. Suggested:

- ELEVATIONS (1:4 scale) giving overviews of the “front” and a “side” of your stand, showing the overall configuration.
- SECTIONS (1:2 scale) of your stand, showing the exact thickness and dimension of every piece, and focusing especially on the exact connection (2-3 sections needed? Some may need more!). EVERY wood piece of your project should show up in at least one section.
- PLANS (1:2 scale) of your project, showing the exact thickness and dimension of every piece, and focusing especially on the exact connections (2-3 plans needed? Some may need more). EVERY wood piece of your project should show up in at least one section.
- 3-D PARALINES that explain how the pieces are configured and/or assembled. Exploded axonometric and/or IKEA-type time-lapse assembly drawings at 1:4 scale are suggested.

4) Prepare a “cut-list”: a numbered list of every piece of material used in your project, with approximate rough-cut, and precise finished dimensions (organize by size, construction sequence, or location within design).

5) For Monday RE-DRAFT a FINAL version of all of the above documents on vellum. Include a graphic scale in a uniform location, and a “title block” on the bottom-right corner of every page. The title block should include: a) project name, b) your name, c) name of the drawing, d) number of the drawing; e) scale of the drawing; f) the date of the drawing; g) an empty box for future comments.

6) Scan and submit a single pdf containing all drawings to the archpcserver at: [\\archpcserver\Studios\S12_48-105\02_Shop_Project_Shop_Drawings](http://\archpcserver\Studios\S12_48-105\02_Shop_Project_Shop_Drawings)
Label your file **Lastname_ShopDraw.pdf**; avoid excessive filesize!

