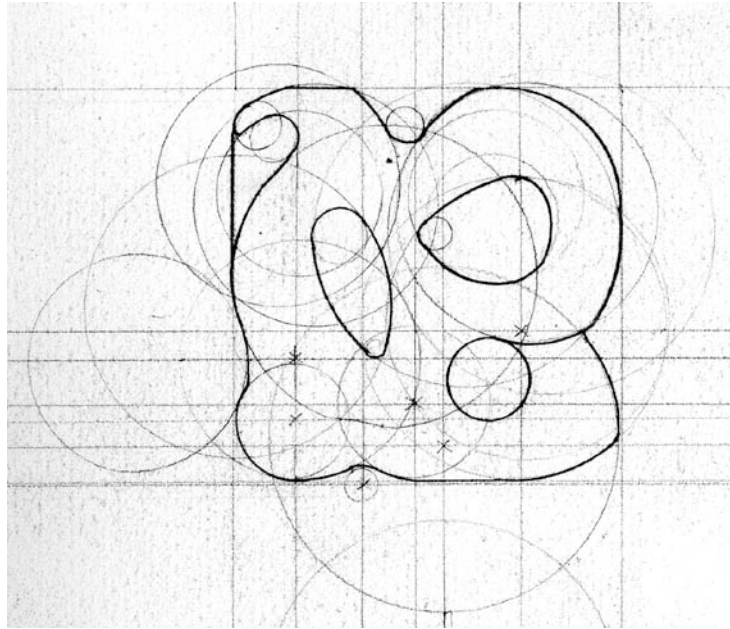


Course Number and Title: ARCH 151 / Architectural Drawing I / 3.0 Credits

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Drawing by Monica Gaura, Drexel Student

PROJECT 1, ASSIGNMENT 4: Geometry: Form and Function (the development of a Narrative)

Geometry is inherent in all things, whether manmade or natural. Structural systems rely upon geometry and this helps to determine an object's final form. Geometry can also be used to describe the motion something might make in space, giving *form* to movement, aka *function*.

In drafting, we have a few techniques at our disposal to graphically illustrate these concepts. Among them are line weights, the layering of information as it is added to a drawing, and the arrangement of drawings on the page. These elements work together to construct a *graphic narrative*. For this assignment, you will create a single drafted composition that creates a *graphic narrative* from an object's *function* and *form* with information derived from the past 3 assignments and this week's in-class gestural sketching exercise.

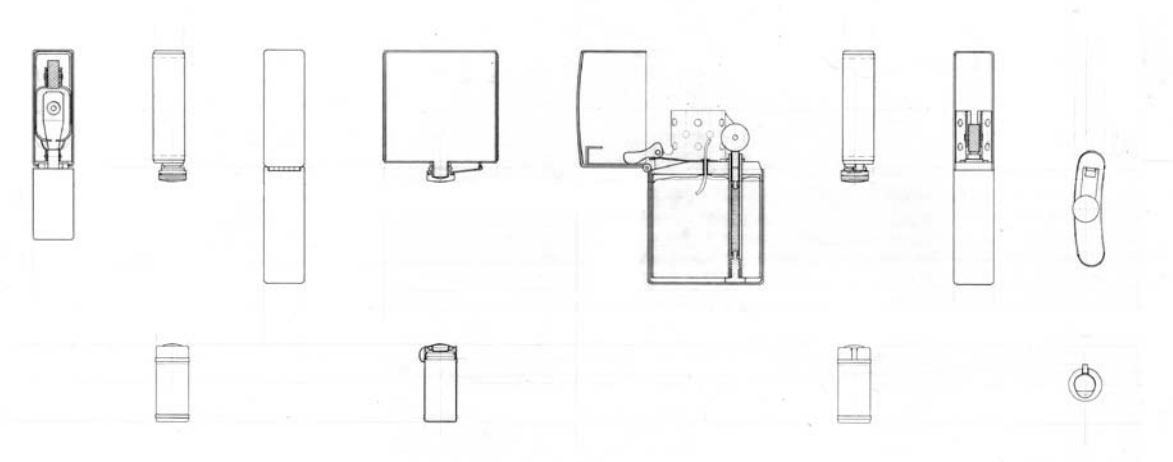
Select important features of the object to organize your composition on the page. For example, this may be a pin around which elements of the object pivot, or a distinctive line of the object's shape. Make this information graphically evident through the organization of drawings and through the use of line weights.

The drafted composition must contain three distinct views of your tool, organized on the page according to the narrative about its function that you have developed. At least one view must be an enlarged view. All views must be typical orthographic views (plan, elevation, detail). This is the final assignment of Project 1 and must be a synthesis of the techniques discussed in class and analyses of the object you have made.

Assignment continued on reverse...

Grades for this assignment will be based upon your ability to meet the following assignment objectives:

- Select three views and arrange them in a compelling way to convey a narrative about the object.
- This composition must be drafted using your leadholder with HB and 2H leads. This includes curves! Sharpen the lead in your compass and use your french curves and circle template. Strive for consistency and a high level of craft for every line on the page.
- Four line weights must be discernable in the final composition. Refer to your Illustrated Dictionary assignment for comparison and select line weights appropriately to represent the following:
 - Primary: foreground elements
 - Secondary: change of plane, middle ground elements
 - Tertiary: background elements, surface textures
 - Construction: layout lines, geometry
- Begin your drawing layout with construction lines that extend to the page edge. Add more information as it is known, saving primary lines for last. Plan ahead and avoid erasing.
- Dashed lines, if used, must be well-crafted with consistent spacing and line length of dashes.
- All forms must be laid out using complete geometry with construction lines.
- At least two dedicated gestural lines must be evident in the drawing. One line must describe the object's form; the other must describe function. These lines should do double-duty: they may be of any lineweight and can serve to unite the drawings, establish the page layout, demonstrate the geometry inherent to the object you have studied, and highlight common elements in each view.
- Use one sheet of d'Arches paper from your kit; landscape or portrait orientation is acceptable. Treat the paper well, with attention to the composition in relation to the entire page.
- Prior to embarking upon the final composition, create a minimum of one page of strategy layouts in your sketchbook. The following must be evident in this strategy drawing: drawing layout, written notes about line weights, graphic and/or written notes about gesture and geometry in the final composition and notes about the narrative you have developed.
- Synthesize the tools and techniques of prior assignments in this final composition of Project 1.



Drawing by Kai Hansen, Illinois Institute of Technology Student

Assignment Due: 2pm, Tuesday Oct 20 (Section 1) or Thursday Oct 22 (Section 2)

- Be prepared to discuss your drafted drawings, gestural layout and process sketches in class.
- Scan your composition (in pieces, if necessary) as a grayscale image at 300dpi and email to DrexelDrawing@gmail.com. Follow the tutorial to piece together your drawing in Photoshop.