

Course Number and Title: ARCH 156 / Graphic Communications I / 3.0 Credits

Instructor: Paul Schultz

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Website: www.thedraftedline/teaching

Course Pre-requisite: ARCH 155

Schedule: Winter Term, Tuesday (Section 1) or Thursday (Section 2) 7:00 – 9:50pm

Catalog Description: Examines techniques of visual communications for use in the architectural design process. Focuses on architectural representation through advanced drawing techniques including sketching, perspective drawing, rendering, shade and shadow techniques and the use of color.

Course Objectives: As the second hand drawing course in the required course sequence for evening architecture majors, this course aims to broaden students' knowledge of representation techniques through the use and application of techniques discussed in Basic Architectural Drawing Arch 155. All projects in Arch 152 will deal with the observation and documentation of real spaces and conditions in an effort to better understand and explore the effects of light, materiality, color and texture upon space and the human experience. Outcomes from this class are intended to be transferred to your own design decisions.

Course Requirements: Students are expected to complete all work for the week as outlined in each assignment handout and to be prepared to discuss it with the group. Students should come to class prepared to work and have access to all drawing supplies in the studio. It will also be useful to have the course textbooks available for reference during in-class work sessions.

Sketchbook: You must bring your sketchbook and drawing supplies to every class meeting (graphite pencils and ink - special supply requirements will be discussed in class). Treat your sketchbook like a journal and use it as a testing ground for design ideas from studio, techniques discussed in drawing class, and drawn observations of the world around you. You will receive a grade on your sketchbook.

Course Text: *Design Drawing*, F. Ching; *Color Drawing*, Michael E. Doyle, 2006 ed.

Course Supplies:

- *Drafting tools* (lead holder; 2H & HB leads; rotary sharpener; triangles: 30-60-90, 45-45-90, adjustable; white eraser; eraser shield; flex curve and/or ellipse template; circle template; drafting tape).
- *PrismaColor soft lead color pencil set of 12* (approx. \$12.99 from Blick Art, set of 36 is approx. \$26.99)
- *4 sheets (minimum) of drawing quality paper* (\$2.09 per sheet from Blick Art, 1330 Chestnut Street, Philadelphia): Stonehenge White or Warm White Paper, 22"x30", 90lb, Item no. 104231002
- *5 sheets 12"x18" white construction paper & 5 sheets 12"x18" black construction paper*
- *Markers:* Ultra fine point sharpie marker and regular "utility" sharpie marker in black ink
- *Sketchbook:* 75 pages 11"x14" minimum
- *Trace Paper:* 12" roll of white translucent paper
- *Surface to lean on:* 12"x18" cardboard or masonite
- *Viewfinder:* 7"x9" cardboard or chipboard (TBA)

Attendance: Regular class attendance is mandatory except in the event of an emergency or sickness. Unexcused lateness to or departure early from class will be recorded and two of these marks will be equivalent to one absence. Excused absences are allowed for severe illness and emergencies and must be documented in writing by a doctor or other authorized person. Inability to attend class requires advance notification to the instructor via email. More than 1 *unexcused absence* will result in a reduction of the final grade. More than 1 *excused or unexcused absence* will result in an evaluation by the instructor of student's competence in the subject matter and demonstrated understanding of topics covered in class. Failure to pass this evaluation will result in a reduction of the final grade or class failure in extreme cases. When missing class, it is the student's responsibility to obtain the assignment from the course website and complete the necessary work for the following week.

NAAB (National Accreditation Board) Conditions for Accreditation & Student Performance Criteria:

Arch 152 content addresses student performance criteria required for professional accreditation of our architecture program. These criteria consist of specified abilities and understandings that graduating students must demonstrate. The following criteria are covered in this course:

Realm A: Critical Thinking and Representation: A.1 Communication Skills, A.2 Design Thinking Skills, A.3 Visual Communication Skills, A.4 Technical Documentation Skills, A.5 Investigative Skills, A.7 Use of Precedents, A.8 Ordering Systems Skills, A.11 Applied Research

Realm C: Leadership and Practice: C.1 Collaboration, C.2 Human Behavior

Grading: Students will be evaluated on individual progress, class participation, thoroughness and completeness of assignments, and exploration of the techniques presented in class.

Project 1: 10%

Project 2: 20%

Project 3: 20%

Project 4: 25%

Sketchbook Journal: 15%

Participation, Effort: 10%

Course Outline:

Week 1: Project 1, Analytical Drawing (Diagramming) (complete in class)

Use the plan and section provided to diagram organizational design principles.

Journal: TBA

Week 1: Project 2, Assignment 1, Drafting in Plan and Section

Draft a section and partial plan of the Fisher Fine Arts Library Main and Rotunda Reading Rooms.

Journal: TBA

Week 2: Project 2, Assignment 2a, Constructing Shadows in Plan and Section

Construct and projected shadows on trace paper as an overlay on Assignment 1.

Journal: TBA

Week 3: Project 2, Assignment 2b, Rendering Shadows in Plan and Section

Render projected shadows using the technique of rendered tone. Test rendering technique in class.

Journal: TBA

Week 3: Project 2, Assignment 3, Drawing with Light (complete in class)

Rendering with light media on dark paper and dark media on white paper with a focus on form

Journal: TBA

Week 4: Project 2, Assignment 4, Detail Drawing Observation

Render in light and dark media to illustrate your observations of the form of details in response to light and shade.

Note: bring viewfinder to class next week!

Week 5: Project 3, Assignment 1, Sketching with a Viewfinder

Select views of interior spaces and re-present them with the aid of a viewfinder

Journal: Three views sketched with shade and shadow annotated on drawings; develop tonal gradient

Week 6: Project 3, Assignment 2, Rendering a Drawing with cross hatching in ink

Using the technique of cross hatch, enlarge sketches and develop drawings through black ink rendering.

Journal: Tonal gradient with cross-hatch

Week 7: Project 4, Assignment 1, Representing Materiality

Study of found objects; Developing a color palette with a focus on materials.

Journal: Color Palette; freehand observation drawings from site visit

Note: bring your color pencils to class this week!

Week 8: Project 4, Assignment 2, Site Plan and Elevation Drawing with Color, Shade and Shadow

Site visit to Skirkanich Hall (33rd Street, south of Walnut, on the U.Penn Campus)

Study of Skirkanich Hall in Plan and Elevation

Begin drafting the elevation and site plan in 2D using the drawings provided

Journal: Developing components- people and trees

Week 9: Project 4, Assignment 3, Color Rendering

Development of drawings and renderings, adding people and trees

Journal: Rendering tests for final composition

Week 10: Project 4, Assignment 4, Composition Completion; Presentation of Journal

Final review of drawings

Journal: Summary of course

Week 11: All work due