

arch2110 syllabus

University of Colorado Denver
College of Architecture and Planning

COURSE ARCH 2110 - Design Studio 1
SEMESTER Spring 2016
SCHEDULE M, W: 8:00 AM-10:50 AM
OFFICE HOURS *posted or by appointment*

LOCATION Suite 2000
CREDITS 3 credits

SECTION INSTRUCTOR Amir Alrubaiy amir.alrubaiy@ucdenver.edu
Maria Delgado maria.delgadodeleon@ucdenver.edu
Solmaz Mohammadzadehkive solmaz.mohammadzadehkive@ucdenver.edu

DISCLAIMER This document serves as the general syllabus for this studio. Your section instructor may adjust content such as project descriptions and deliverables, grading rubrics, and project schedules at their discretion.

OVERVIEW How do we know what to do? How do we communicate? How do we express?

The simplest questions are always the hardest, and require the most set-up. As you move into the formative years of your Architectural education, we need to do some set-up. We need to set the ground. And we need to show you how to develop the tools to not necessarily “know what to do,” but how to “structure what you’re going to do.”

The first steps in producing the world around us, are to restate the world around us. Repeat what has been said. Establish that we’re speaking the same language. Affirm that what we say, means what we think it means.

Before you can describe an idea in your head, you’ve got to be able to describe things that exist in the world. That’s where this studio comes in.

WHAT TO EXPECT This studio will move you through an introduction to Architectural ordering systems, analysis, and description. You will be guided through a series of small projects that will require you to draw, diagram, and model increasingly complex built objects. It is expected that your work will be both precise and exploratory. If you don’t know how to draw at the beginning, relax. That’s the point of the class. If you don’t know how to draw by the end...well.....

Classes will consist of a mix of lectures, in studio assignments, out of studio assignments, and peer reviews. Of these elements, the peer review process can be one of the most stressful and rewarding parts. Relax and have fun with it...The more you talk the better.

NAAB CRITERIA

- 1. Speaking and Writing Skills:** Ability to speak and write effectively on subject matter contained in the professional curriculum
- 2. Critical Thinking Skills:** Ability to raise clear and precise questions, use abstract ideas to interpret information, consider diverse points of view, reach well-reasoned conclusions, and test them against relevant criteria and standards
- 3. Graphic Skills:** Ability to employ appropriate representational media... to convey essential formal elements at each stage of the programming and design process.
- 4. Research Skills:** Ability to gather, assess, record, and apply relevant information in architectural coursework
- 5. Formal Ordering Skills:** Understanding of the fundamentals of visual perception and the principles and systems of order that inform two and three-dimensional design, architectural composition, and urban design.

arch2110 syllabus

COURSE OUTCOMES **conceptual:**

understanding of basic architectural design terminology

- become conversant in the vocabulary of design
- use appropriate terms and references to describe design precedents

understanding of basic principles of design and composition

- be able to identify and describe the spatial, geometric, and programmatic frameworks governing designed objects
- be able to apply this understanding to their own analyses and presentations

understanding of basic methods of design

- identify multiple design strategies through case study analysis
- understand how design constraints drive particular methods

diagramming

- develop ability to distill and describe design case studies through multiple diagrams
- understand different diagramming techniques such as multiples, charts and graphs, distillations, and flow drawings

technical:

hand drafting

- develop proficiency with the conventions of architectural drawing such as: line weight, line type, symbol, and notation
- understand and utilize the orthographic conventions of plan, section, and elevation
- understand and utilize multiple modes of paraline drawing

sketching

- be able to use constructed drawing principals and techniques to generate quick, freehand drawings

rendered drawings

- be able to use techniques of tone, texture, shade and shadow
- develop hybrid/mixed media drawing techniques

basic model making

- be able to produce clean, accurate scale models
- understand how to use models as descriptive/analytic devices

presentation:

written composition

- be able to clearly and concisely describe design intent
- understand how to incorporate text and notation into graphic presentations

verbal presentation

- be able to clearly and concisely present a design or analysis to instructors or reviewers

arch2110

syllabus

ATTENDANCE	Students are required to attend every studio meeting day throughout the semester on Monday and Wednesday mornings for the entire period from 8:00 a.m. – 10:50 am. Students are strongly encouraged to work in the studio after ours as well – as the studio environment proves to be highly beneficial in the exchange of ideas with fellow classmates.
ABSENCES, TARDINESS, PROJECTS AND ASSIGNMENTS	<p>Except for documented health or disability reasons, excuses will not be accepted for absences, tardiness or assignments not submitted. Documentation of disability or health related issues must be provided to Disability Resources and Services, 177 Arts Building, 303-556-3450, FAX 303-556-2074.</p> <p>Classes begin and end on time. Three unexcused absences will result in one grade reduction. If you are late to class and/or leave class early three times, an academic penalty of one grade reduction will be imposed. Homework, papers, projects, or other required assignments that are turned in late will receive one grade reduction for everyday they are late. Any student who fails to turn in homework and projects will receive either a zero or an F for the work missed.</p>
PROGRESS AND INCOMPLETION	Students must demonstrate weekly progress and must complete the work by the project deadline date. Incomplete work will result in a reduction of grades depending on the severity of the incompleteness.
EMAIL	<i>It is a campus requirement that instructors only communicate with students via their official cudenver email address.</i> All students have been assigned official email addresses in the format of: firstname.lastname@ucdenver.edu Students must activate their accounts, reset their passwords and setup email forwarding at: https://web.cudenver.edu/prfw/chpass.cgi If you have any questions, please contact the DDC Help Desk at 303-315-4357.
STUDENTS WITH DISABILITIES	Student with disability who want academic accommodations must register with Disability Resources and Services (DRS), 177 Arts Building, 303-556-3450, FAX 303-556-2074. DRS, which requires students to provide current and adequate documentation of their disabilities. Once a student has registered with DRS, DRS will review the documentation and assess the student's request for academic accommodations in light of the documentation. DRS will then provide the student with a letter indicating which academic accommodations have been approved. Once you provide the instructor with a copy of the DRS letter, the approved accommodations will be provided.
SUBMISSIONS AND GRADES	<ol style="list-style-type: none">1) Instructors will collect drawings and models when they are due.2) All grades and evaluations will be submitted via Canvas.
PLAGIARISM	Students are expected to know, understand and comply with the ethical standards of the university, including rules against plagiarism. Plagiarism is the use of another person's ideas or works without acknowledgement. The incorporation of another person's work into your own requires appropriate identification and acknowledgement. The following are considered to be forms of plagiarism when the source is not noted: word-for-word copying of another person's ideas or words; the "mosaic" (interspersing your own words here and there while in, essence, copying another's work); the paraphrase (the rewriting of another's work, while still using their basic ideas or theories); fabrication (inventing sources); submission of another's work as your own; and neglecting quotation marks when including direct quotes.

arch2110 syllabus

- CLASSROOM DECORUM The following ground rules apply to all students and are designed to ensure a classroom environment conducive to learning for all students:
1. Pagers, beepers, cellular telephones, and handheld internet devices must be deactivated before class begins and remain deactivated throughout the entire class period.
 2. Please do not bring children to class.
 3. Students who engage in disruptive behavior will be reported to the Office of Student Life for appropriate disciplinary action under the CU-Denver Code of Student Conduct and, when appropriate, to the Auraria Campus Police for investigation of possible criminal action. The Code of Student Conduct can be found on the CU-Denver website, under Office of Student Life and Student Activities. Disruptive behavior includes, but is not limited to, arriving late to class without explanation or apology; leaving class early without explanation or apology; reading a newspaper or magazine; reading a book with no connection to the content of the course; engaging in prolonged private conversations; sleeping in class; eating, drinking and/or gum chewing; passing notes; being under the influence of drugs or alcohol; harassment and verbal or physical threats to another student or the instructor; failure to deactivate pagers, beepers, cellular telephones, and/or handheld internet devices; bringing children to class.
- INTELLECTUAL PROPERTY For the academic year 2014-2015, the instructors maintain intellectual property rights on this syllabus and all lectures. Students are prohibited from selling, or being paid by any person or commercial firm for taking notes, recording class lectures without the advanced express written permission of the faculty member teaching this course. Exceptions are permitted for students with a disability who are approved in advance by Disability Resource and Services for note taking or tape recording as an academic accommodation.
- ONLINE INFORMATION DISTRIBUTION **Course information, documents, assignments, grades, communication and external links will be available to students through Canvas Online Access.** <https://ucdenver.instructure.com/login>
- FINAL DOCUMENTATION At the end of the semester, you will be required to submit scans and photographs of your projects to your instructor on a USB drive, CD, or DVD. Please plan to document your work along the way so this does not come as a surprise at the end of class!

arch2110 syllabus

UCD College of Architecture and Planning Architecture Department Studio Culture Policy

INTRODUCTION Within architectural education the Studio has long played a central role. The studio integrates critical discourse and creative thinking, as well as learning through making. It is both an analytic and synthetic form of education. This complex form of studio education requires serious commitment of students and faculty in terms of time and effort. The studio also requires serious commitment of the institution in terms of the allocation of faculty, of space, and supporting facilities. For these reasons the studio and the culture of the studio is of central importance to faculty, students, and administrators.

PURPOSE The purpose of the studio culture policy is to establish a standard of understanding and respectful relationships between faculty and students. It is not intended to address curricula.

CORE VALUE The studio is intended to be a learning environment that fosters a culture of mutual respect and collaboration between faculty and students, as well as between students and students. This respect and collaboration is fundamental for effective teaching and learning.

STUDIO SPACE In general, it is expected that respect for school equipment and the workspace itself is a basic value. This involves keeping the workspace clean, fire corridors open, and caring for desks and lockers as if they were your own. It is particularly expected that respect and care for any and all student drawings, models, work of any kind is fundamental.

1. EXPECTATIONS OF STUDENTS In general, it is the expectation that students, as adults, take responsibility for their own education and take responsibility for their relationship with other students and faculty within the studio. Therefore, it is expected that:

- 1.1. Students will be prepared for class.
- 1.2. Students will attend class as required.
- 1.3. Students will communicate concerns in a civil and timely manner to Faculty.
- 1.4. Students will perform assigned tasks on time and to the best of their ability.

2. EXPECTATIONS OF FACULTY In general it is the expectation that faculty knowledge and expertise be appropriate for the studio to which they are assigned. Therefore, it is expected that:

- 2.1. Faculty will have the necessary background to teach class and should be prepared for class every day.
- 2.2. Faculty will attend class as required.
- 2.3. Faculty will clearly communicate their ideas and expectations to the students and should post and hold required office hours.
- 2.4. Faculty will be able to demonstrate the skills and concepts that they are teaching in order to provide examples for assigned work. Likewise, course prerequisites are the responsibility of students.

3. FACULTY-STUDENT RELATIONS The attitudes of faculty in studio do much to set the tone for the studio culture. In general, since these are undergraduate and graduate studios, it is expected that faculty recognize their students as adults and treat them with appropriate respect. It is expected that honoring basic interpersonal relationships is fundamental. Therefore it is expected that:

- 3.1. Faculty and students will develop a supportive and collegial atmosphere in the studio.
- 3.2. Faculty and students will recognize each other as adults with unique

arch2110

syllabus

life experiences committed to participating in the best education possible and treat each other as such.

3.3. Faculty will try at all times to give every student equal attention.

3.4. Faculty and students will endeavor to get to know each other as individuals and celebrate each other's individuality.

3.5. Faculty and the administration will keep all sections of each given studio in the same space in order to promote the exchange of ideas and strategies between sections.

4. STUDENT-STUDENT RELATIONS The attitudes of students in studio do as much to set the tone for studio culture as the Faculty. It is expected that students recognize their peers as individuals worthy of respect. Therefore, it is expected that:

4.1. Students will implement a student-to-student mentoring program to facilitate communication and support between studio levels.

4.2. Students will maintain an attitude of mutual respect for one another, each other's work, their working environment and how their actions in studio affect other students' ability to work.

4.3. Students will strive always to respect environmental quality.

4.4. Students will maintain respect for diversity of all kinds.

5. WORKLOAD Studio work is by its very nature time consuming. However, it is expected that student work assignments would be reasonable given the time available and recognizing that students do have other classes. Therefore it is expected that:

5.1. Faculty will maintain reasonable scheduling of assignments.

5.2. Faculty will provide syllabi and a schedule of work for the semester in a timely manner and will adhere to them as much as is possible.

5.3. Faculty will maintain a reasonable workload, commensurate with the credit hour load of each class.

5.4. Faculty will allow students time for reflection and integration between introduction of new material and concepts.

6. JURIES The jury is intended to be a learning environment based upon mutual respect between juror and students. It is expected that work will be carefully and thoroughly critiqued, but that the critique will be directed to the work, not to the character or personhood of the student. Therefore it is expected that:

6.1. Faculty will ensure that jurors have adequate knowledge of the studio project before the review begins.

6.2. Jurors will have respect for the students and the students' work and will critique the work, not the person.

6.3. Juries will be of a reasonable length, not exceeding the time scheduled.

6.4. Faculty will provide students with a clear introduction to the structure and desired outcomes of the jury process.

7. ASSESSMENT Assessment is a reality of the university. In general it is expected that the methods and means of assessment is fair and equitable. Therefore it is expected that:

7.1. Clear expectations and methodologies of student assessment will be established and communicated in writing.

7.2. Assessments and feedback will be provided in a timely manner throughout the semester so that students receive timely guidance on their work.

7.3. Faculty will provide regular, useful and informative feedback during the semester in order to prepare students for jury reviews.

arch2110

syllabus

7.4. Faculty will critique the work, not the person.

7.5. Faculty will evaluate both students' knowledge and their technique.

8. PROMOTION AND MAINTENANCE OF THE STUDIO CULTURE POLICY

In order to continuously promote and maintain the desired studio culture, this document is expected to be disseminated and maintained on a regular basis. Therefore it is expected that:

8.1. Student government and the administration will convene regular Studio Culture Committee meetings.

8.2. There will be multiple opportunities throughout the semester for feedback on compliance with the policy by both faculty and students.

8.3. There will be an annual Studio Culture Policy Review.

8.4. The Studio Culture Policy will be a component of the syllabi.

8.5. The Studio Culture Policy shall be considered a part of every studio syllabus.

8.6. Disputes concerning failure to adhere to the Studio Culture Policy will be the charge of the Student Affairs Committee and, if not resolved, should be brought to the attention of either the department chair or the student representative. Grade appeals shall be considered under the College Grade Appeal Policy and not the Studio Culture Policy.

arch2110 syllabus

ACCESS As an Architecture student, you will be allowed 24hr access to the CU building and most of the facilities (some of the woodshop is closed after hours). You will need to have your student ID registered at Facility Services on the 13th floor of the Lawrence Street Center building

READING MATERIAL **Design Drawing**, 2nd Edition
Author: Francis D. K. Ching, Steven P. Juroszek
ISBN: 978-0-470-53369-7

Operative Design: A catalogue of spatial verbs
Author: Anthony di Mari and Nora Yoo
ISBN: 978-90-6369-289-6

HARDWARE/SOFTWARE Personal laptop computers are not required for this class, but they can be helpful. There is no required software for this class.

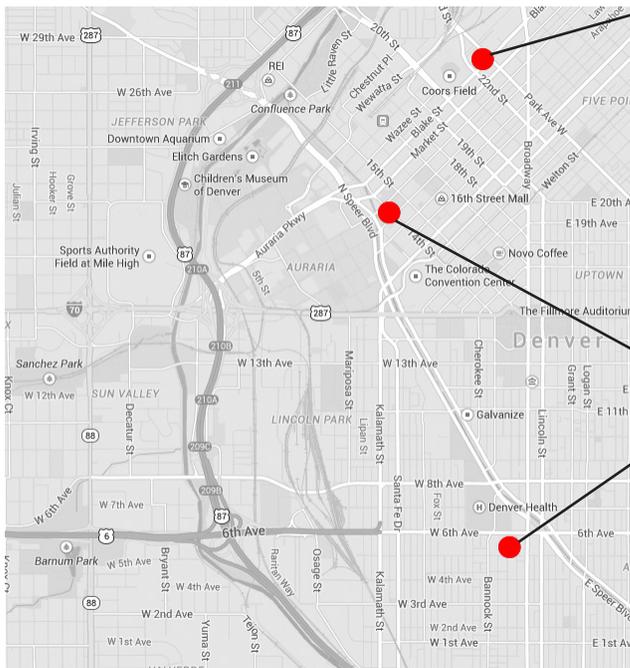
MATERIALS/SUPPLIES The following page contains a list of required and suggested purchases for this class and future architecture studios. There will be a large cost up front to get most of your supplies, and throughout the semester you will need to purchase additional supplies for final drawings and for models.

Each student will have a dedicated desk and locker within the studio suite. Students may choose to work in the studio or at home to complete the assignments. Supplies **must** be present in class for each studio session.

All of these supplies are available new at local stores such as Meininger's and Guiry's. There are also limited supplies available at the Auraria Bookstore. Many supplies are also available at Michael's or other craft stores. In addition, you may check the bulletin boards around school, as well as Craigslist to find students selling their old supplies. Supplies can also be purchased through an online store such as:

Dick Blick <http://www.dickblick.com/>
Jerrys Artarama <http://www.jerrysartarama.com/>

Model making supplies can also be found at:
CABOOSE HOBBIES
p. 303.777.6766



GUIRY'S
2245 MARKET STREET, DENVER, CO
303.292.0444
M-F: 8:30-7:00
SAT: 8:30-5:30
SUN: CLOSED
[note: Guiry's has a second location at :
2121 S. Colorado Blvd]

CU BUILDING
1250 14TH STREET, DENVER, CO

MEININGER'S
499 BROADWAY, DENVER, CO
303.698.3838
M-F: 9-6
SAT: 10-5
SUN: 12-5

arch2110 syllabus

NOTE: prices listed below are current prices at Meininger's as of 01/12/15. They are anticipating students coming in with this supply list and are happy to help you find the supplies you need for the class.

REQUIRED MATERIALS
AVAILABLE AT MEININGER'S
OR SIMILAR ART SUPPLY STORE

6 sided Architect's Scale - 12"	\$4.65-\$15.50
VYCO board cover [24"x36" or 31"x42" for school desk]	\$32.79-42.39
Double sided tape for VYCO board cover	included at HRM
Drafting Dots - 1 box	\$6.79-\$8.79
Drafting Tape - 1 roll, .5"	\$3.79
(2) Lead Holders for 2mm leads	\$6.69-\$10.59 each
2mm leads, (2) pack of each: 4H, 2H, H, B, 2B	\$2.49-\$2.99 each
Lead Pointer for 2mm leads	\$8.99
30°/60°/90° Drafting Triangle 14" with inking edge	\$7.19
45°/45°/90° Drafting Triangle 12" with inking edge	\$7.19
Circle Templates (assorted sizes)	\$6-8.00 ea
White Plastic Block Eraser	\$1.49
White Click Eraser	\$1.99
Kneaded Eraser	\$0.79-\$1.49
Eraser Shield	\$0.99-\$1.25
Dry Erase Pad	\$4.59
Drafting Brush	\$3.99-\$5.69
Sanding pad	\$1.00
Compass / Dividers combination set	\$22.49
Tracing Paper Roll 18" - White	\$12.99
18"x24" Pad of Strathmore 400 Drawing Paper	\$17.49 [sale: \$13.12]
Xacto Knife OR	\$2.99-\$8.59
Olfa Stainless Knife - # SVR-1	
Xacto Blades #11 100pk OR	up to \$30
Blades for Olfa Stainless Knife - # SVR-1	
Cork Backed Stainless Steel Ruler - 18"	\$3.39-\$14.69
Green/Black Cutting Mat - Minimum size 18"x24"	\$15.69
Metal T-Square - 30" or 36"	\$17.50
Sketch Book [minimum size 5.5"x8.25"]	varies- you choose!
Telescoping Drawing tube OR	recycled-\$15.00
Portfolio case, min. size 18"x24"	

REQUIRED MATERIALS
AVAILABLE AT OFFICE SUPPLY STORE/SIMILAR

Toolbox / Plastic box with sealable top	\$5 minimum
USB drive - 4gb	\$5
Combination lock [for assigned locker in studio]	\$7

REQUIRED FOR PURCHASE LATER
[PER ASSIGNMENT]

Vellum drawing paper	
[sizes per assignment, instructors to advise]	
Opaque drawing paper	
[i.e. Strathmore 500 or other, instructors to advise]	
Basswood - various sizes/dimensions	
Chipboard - 1 ply	
White Museum Board - 1 or 2 ply	
White Foam Core or Corrugated Cardboard	

SUGGESTED MATERIALS

Mayline parallel ruler [for home desk or studio] - min. 42" length OR portable drafting board, 24"x36"	
Colorless Blender Marker [chartpak brand]	
Non photo blue pencil	
Circle Templates .2"-1.4"	
Cable lock to attach drawing board to desk	
Box of pushpins - clear heads, or T pins	
Roll of paper towels	
Spray cleaning fluid	
Workable fixative [note: must be stored in cabinet in studio]	
Free account with www.Dropbox.com	

TOTAL: \$230-\$340

arch2110 syllabus

ASSIGNMENTS The assignments in this studio introduce you to the basic mechanisms of architectural description and analysis. Each phase will take on an increasingly complex subject and utilize ever more sophisticated methods of graphic description and analysis. Assignments are designed to be begun in class and completed on your own. While the workload should not be excessive, good time management will be critical. Revisions and updates will be expected in most classes.

As we move into more advanced and expressive modes of representation, it will be critical that you experiment and take chances with your media. Don't be afraid to do this...some ideas won't materialize as anticipated, but the faster you work through it, the sooner you can move on. Iteration is a term you will hear a lot in this class and future design studios.

01 drawing components [01.20-01.27]

Project one introduces basic conventions and techniques of architectural drawing. Students will develop a predictable and repeatable palette of Lineweights, Tones, and Textures. Supreme emphasis is placed on precision and execution.

02 constructions [01.27-02.10]

The second project engages students with some of the essential geometric relationships embedded in built form. Students draw a series of tangent curves and gridded constructions.

03 the tool [02.10-02.29]

After becoming comfortable with standard drawing tools and techniques, students generate orthographic projections of a selected tool. The "constructions" assignment has direct impact on "the tool"

04 the chair [02.29-03.16]

"The chair" extendeds the lessons of descriptive geometry and formal analysis from "the tool." This project, however, introduces isometric projections (3D) and architectural scale.

05 operations [03.28-04.13]

Following from projects dealing with analyzing and describing, students will use drawing to manipulate form and space systematically and deliberately. Staring with a primitive form, students will draw (and model) through a series of formal "operations." The emphasis of this project is NOT novelty, but intentionality and control over a formal "morphology."

06 the threshold [04.13-05.04]

After gaining proficiency in deliberately and systematically manipulating abstract space and form, students will use ALL of their acquired skills and techniques to design a basic Architectural space. Students will be expected to analyze and describe the spatial operations used to produce their design. Final projects will be presented at a formal, end of semester review.

GRADING	01 drawing components	5%
	02 constructions	5%
	03 the tool	15%
	04 the chair	15%
	05 operations	20%
	06 the threshold	30%
	participation/presentation/attendance	10%
TOTAL	100%	

arch2110 syllabus

SEMESTER SCHEDULE

notes:
bring sketchbook to
lectures

wk 1	jan 18	no class	
	jan 20	LECTURE 01 & materials demo hand out assignment 01	
wk 2	jan 25	work in class on assignment 01	
	jan 27	LECTURE 02 hand out assignment 02	ASSN 1 DUE
wk 3	feb 01	work in class	Grid Due
	feb 03	work in class on assignment 02	
wk 4	feb 08	work in class on assignment 02	
	feb 10	LECTURE 03 hand out assignment 03	ASSN 2 DUE
wk 5	feb 15	work in class on assignment 03	
	feb 17	work in class on	Tool V1 Due
wk 6	feb 22	work in class on assignment 03	
	feb 24	work in class on	Tool V2 Due
wk 7	feb 29	LECTURE 04 hand out assignment 04	ASSN 3 DUE
	mar 02	work in class on assignment 04	
wk 8	mar 07	work in class on	Chair V1 Due
	mar 09	work in class on assignment 04	
wk 9	mar 14	work in class on	Chair V2 Due
	mar 16		ASSN 4 DUE
wk 10	mar 21	no class	
	mar 23	no class	
wk 11	mar 28	LECTURE 05 hand out assignment 05	
	mar 30	work in class on assignment 05	
wk 12	apr 04	work in class on assignment 05	
	apr 06	work in class on	Progress Pin-up
wk 13	apr 11	work in class on assignment 05	
	apr 13	LECTURE 06 hand out assignment 06	ASSN 5 DUE
wk 14	apr 18	work in class on assignment 06	
	apr 20	work in class on assignment 06	
wk 15	apr 25	work in class on	Progress Pin-up
	apr 27	work in class on assignment 06	
wk 16	may 02	work in class on assignment 05	
	may 04	FINAL REVIEW	ASSN 6 DUE

DRAWING COMPONENTS

- control of drawing tools
- consistency and repeatability of techniques: Lineweight, Tone, Texture
- following directions
- developing a graphic palette

5%

CONSTRUCTIONS

- control of drawing tools
- consistency and repeatability of techniques: Lineweight, Tone, Texture
- basic geometric relationships

5%

THE TOOL

- graphic projections
- descriptive geometry
- creating orthographic projection drawings
- page composition

15%

THE CHAIR

- graphic projections
- architectural scale
- creating isometric projection drawings
- page composition

15%

OPERATIONAL DRAWING

- simple morphology
- descriptive geometry
- simple model making
- developing a formal palette

20%

THRESHOLD

- generating architectural space
- perspective drawing
- application of accumulated knowledge and technique

30%

10%
participation and attendance