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## Class: 209 Design Thinking – 12 Week Class

**Faculty:** Kristin Pipal-Keehne, LEED AP Email: Kristin@idi.edu

**Units:** 3.5

**Course Prerequisites:** Certificate Program

### Required Course Textbooks:

Ching, Francis K.K.; *Architecture: Form, Space and Order*  
Bartholomew, Rick L.; *Design Process Hand Sketching for Interiors*

**Supplies:** Drafting supplies used during the Certificate Program  
18" x 24" sheet of acetate (thin to place under drawings)  
Assorted markers: (will review colors needed in 1<sup>st</sup> class)  
Prisma markers: 40% & 60% Warm Grey, various colors of Gold, Brown, Rust, Blue, Green, and Yellow – Additional or alternate colors will be discussed  
Pentel Sign Pen-Black (2)  
Other Fine Point & Extra-Fine Point Black pens (review in class) Pilot or Forey etc  
1-2 manila file folders  
1 package of 10-12" wooden skewers  
Elmers or Aleene's tacky glue  
2-3 sheets of 32" x 40" (or similar size) 3/16" thick white foam core (**No** 1/8" thick boards)  
1 20" x 30" sheet of 1/2" thick black foam core \*this usually has to be ordered and is needed on week 9 so don't wait to purchase this  
Exacto knife and or box cutter  
Model making materials to be discussed in class  
Binder for assignments, etc. and Tabs  
Optional: drafting table

Supplies can be purchased at Art Supply Warehouse in Huntington Beach ([artsupplywarehouse.com](http://artsupplywarehouse.com)), Staples, Office Depot, Hobby Lobby, Amazon or other art supply stores in your area. A 23" x 31" table top drafting table can be purchased from Amazon for approximately \$100.

### Course Objectives:

1. To foster innovation and promote the **DESIGN PROCESS** through various methods of idea generation and design thinking.
2. To teach brainstorming, collaboration, knowledge sharing, and experimentation.

3. To promote an **UNDERSTANDING** and **APPLICATION** of **TWO AND THREE-DIMENSIONAL** elements of design relevant to design.
4. To develop an **ABILITY TO COMMUNICATE** ideas in oral, written, and graphic forms.
5. To facilitate an **UNDERSTANDING OF HUMAN BEHAVIOR** through observation to aid in generating effective design solution.
6. To foster a knowledge, appreciation, and understanding of the work and **CONCEPTUAL THEORIES** of **ICONIC DESIGNERS, ARCHITECTS, AND ARTISANS** and how **HISTORICAL CONTEXT** is useful and relevant to current design solutions.

## **Course Policies:**

### **Attendance and Tardiness:**

**Attendance is mandatory for every class.** You must remain for the entire class period. **Two classes missed will result in a drop of one letter grade. Two consecutive absences or three total absences may result in failure in the class.** Arriving to class 10 minutes late constitutes a **tardy** as does **leaving class early before the class is excused.** Two times tardy will equal one class missed. **A student missing class is responsible for getting missed information from another student.**

### **Assignment Submissions**

**All assignments and tests will be posted on Canvas and you will be expected to submit your work at the specified deadline on Canvas as well.** The floorplan for your final project will be a digital file that will be posted on Canvas. You will need to have it plotted at Arc or another reprographic location of your choice. If you have any issues with Canvas or need tech support, please contact Tammy, Jackie or Amanda at the front desk.

### **Make-Up /Late Work /Quiz:**

**No Quiz can be made up – no exceptions, no excuses.** A zero will be given for the quiz grade. Weekly assignments generally require a verbal presentation of the work submitted which we will do during class. Therefore, weekly assignments that are turned in 1 week late will have a **minimum of 10 points** deducted for missing the verbal presentation portion plus an additional 5 points for the assignment being late. **After one week late a zero will be given for the assignment – again, no exceptions – no excuses. Again, a student missing class is responsible for getting missed information from another student.**

### **Final Presentations:**

A requirement of the class is for each student to present his/her final presentation to the class. All presentations will be done during normal class times. **Any student failing to present the final presentation will fail the class.**

### **Cheating:**

Any form of cheating, copying, or plagiarizing will result in failure and immediate dismissal from the class and possible dismissal from the college. This includes drafting or model building by another student or family member.

### **Tutoring:**

If any student is having trouble keeping up or understanding the course work, getting outside help is a better alternative to dropping the class or risking failure. Please see us about the possibility of a peer group tutor. Don't hesitate to contact us or email us with questions about tutoring.

### **Emails:**

As your teacher, I will be emailing and communicating with the class on a regular basis through Canvas. This may contain course schedule updates, change of due dates and/or assignments or other information that you will want.

We welcome questions about the class. Emails on weekends may not be answered until the following Monday. All students MUST have a current @idi.edu email address used for all class communication.

**Office Hours:** All office hours will be done online through Hang out Meets. You will need to email me first to set up an appointment. I have very limited availability Wednesdays after 8:30pm through Mondays. If you email me during those times, I may not answer you until Tuesday morning when I return to school. I can always arrange a one on one with you outside of my office hours with advanced notice. You will also have the ability for one on ones with me during class most weeks so gather your questions and ideas you need to review and try to have them ready.

Kristin's office hours: Tuesday 4:30pm-5:30pm  
Wednesday 4:00pm-5:30pm

## **COURSE SCHEDULE – 12 Weeks**

### CLASS 1: INTRODUCTION TO THE COURSE:

Introductions, Class format, Review of syllabus and class supplies

Lecture: Principles & Elements of Design, Spatial Ordering (handout)

Review Virtual Museum Post Occupancy Assignment (**due week 6**)

**Reading Assignment: Ching-Chapters 1 & 2**

**Homework: Virtual Museum Post Occupancy Study (due week 6)**

**Homework: Watch video documentary "Objectified" –directed by Gary Hustwit.**

**Available for rent or purchase on Amazon Prime or iTunes. Reaction paper on documentary Objectified (due week 2)**

### CLASS 2: DESIGN PRINCIPLES, ICONIC AND ANALOGIC DESIGN:

Lecture: Design Principles and 2D and 3D Elements of Design

Lecture: Open vs. Closed Space Impression, Iconic and Analogic Design (handout)

Review Iconic model assignment—from 2D to 3D & Process sketches (**due week 4**)

**Due: Objectified Documentary reaction paper**

**Reading Assignment: Reading Ching-Chapters 3, 4 & 7**

### CLASS 3: BLOCK LETTERING, QUIZ REVIEW:

Review for vocabulary quiz

Lecture: Block lettering

Class notebook

Review Lamp assignment (**due week 5**)

**Homework: Block lettering practice exercise (due week 4)**

**Homework: Iconic model with process sketches (due week 4)**

**Bring 8 ½" x 11" Cert. Space Plan handout next week**

### CLASS 4: VOCABULARY QUIZ, ICONIC MODEL, AND GRAPHIC STUDIES:

**Vocabulary Quiz taken on Canvas (You will take the quiz first on Canvas in class)**

**Iconic model presentations** – Oral presentation on design principles represented in terms of line and planar organization and 2D to 3D

exercise with Certificate Space Plan

**Due: Iconic Model and block lettering practice exercise**

**Homework: Certificate Space Plan outlines (due week 5)**

**Homework: Lamp project with process sketches (due week 5)**

**Bring to class next week all markers & marker supplies**

CLASS 5: LIGHT, VIEW, ACOUSTIC, AND CIRCULATION STUDIES:

**Lamp project presentations**

Lecture: Light, view, and circulation and graphic representation

Certificate Plan colorations exercise

Review Foam Core Self Portrait Sculpture assignment **(due week 7)**

**Due: Lamp project**

**Due: Certificate space plan outline**

**Homework: Virtual Museum Post Occupancy Study (due week 6)**

**Homework: Cert. space plan light, view and circulation studies (due week 6)**

CLASS 6: MODEL BUILDING TECHNIQUES:

Demonstration on model making techniques, craftsmanship, and safety from Guest speaker Pete Cruz

Assign Architects/Designers for Research **(due week 8)**

**Due: Virtual Museum Post Occupancy Study**

**Due: Light, view and circulation studies**

**Homework: Foam Core Self Portrait Sculpture with process sketches (due week 7)**

CLASS 7: DESIGN COMMUNICATION – GRAPHICS AND SPACEPLANS:

**Presentation of FoamCore Self Portrait Sculptures**

Discussion of Research Assignment and Power Point Presentations

**Homework: Research paper, powerpoint and Architectural Lettering submission (due week 8)**

CLASS 8: PROGRAMMING/ HUMAN FACTORS/POWER POINT PRESENTATIONS:

**Oral presentation of Research Paper and Power Point**

Review Museum Program along with Final Project Requirements

Review model making techniques, craftsmanship, and safety

**Homework: 1<sup>st</sup> phase of model construction-outer shell (due week 10)**

**Homework: select inspiration building image and bring to class (due week 9)**

CLASS 9: 3D MODEL PROGRESS/ CIRCULATION DIAGRAMS:

Review museum floor plans

Review museum circulation plan

Presentation of inspiration building image and design direction for museum

**Due: inspiration building image**

**Homework: Circulation Diagram of First Floor and Mezzanine (due week 10)**

Class 10: TEAM COLLABORATION CIRCULATION STUDIES:

Presentation and Review of Graphic Circulation Diagrams

Presentation of museum model progress

**Due: Circulation diagram of first floor and mezzanine**

**Due: 1<sup>st</sup> phase of model construction- outer shell**

**Homework: continue to work on museum model**

**CLASS 11: PREPARATION FOR FINAL PRESENTATIONS:**

Discussion on Final Notebooks and Tabs

Discussion of museum model progress

Presentation of museum model progress and review of mezzanine

**Homework: complete museum model (due week 12)**

**Homework: Class notebook (due week 12)**

**CLASS 12: FINAL PRESENTATIONS:**

**Presentation of final museum model**

**Due: presentation of model and elements within model**

**Due: Notebook: Per Notebook Format Sheet - Required assignments, tabs, order**

<b>Grading:</b>	Vocabulary Quiz:	26 pts.
	Objectified Reaction Paper	10 pts
	Activities:	
	Iconic Sculpture	25 pts.
	Light/View/Acoustic	25 pts.
	Lamp	25 pts.
	FoamCore Self Sculpture	25 pts.
	Post Occupancy Study	25 pts.
	Research Assignment/Power Point	30 pts.
	Lettering Assignment	10 pts.
	Museum Circulation Plan	25 pts.
	<u>Final Presentation and notebook</u>	<u>50 pts.</u>
Total:	276pts	

A 275-247.5

B 247-220

C 219-192.5

D 192-165

F 164 and below

**CONGRATULATIONS!!! YOU DID IT!!!**