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## Class: 209 Design Thinking – 12 Week Class

Faculty: Brad Smith, IIDA ASID CID

email: bsmith@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*

**Prior to First Class:** Students should watch the documentary “Objectified” –directed by Gary Hustwit.

**There will be a quiz on it the first day of class.** Paste the link below or web search “Objectified - documentary” and it will get you there and you will find several places to watch it.

<https://vimeo.com/2973112>

### 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 – Autumnal colors will be discussed

Pentel Sign Pen-Black (2)

Other Fine Point & Extra-Fine Point Black pens (review in class)

Model making materials to be discussed in class

Binder for assignments, etc. and Tabs

### 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.

“Education is not the filling of a vessel, it is the lighting of a fire”\*

So let’s light your fire this quarter! \*Tom Kelley, IDEO

## **Course Policies:**

### **Attendance and Tardiness:**

Attendance is taken at each class. **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**. Two times tardy will equal one class missed. **A student missing class is responsible for getting missed information from another student.**

### **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. 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.** Forgetting your work at home is not having your work done. In order to avoid the late penalty, if you photograph your work and email it to me **BEFORE** the end of the class period it was due, you will not be assessed a late penalty **but points will be deducted for no presentation.** You must turn in the hard copy of the work the week following. **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. **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 me about the possibility of a peer group tutor. Don't hesitate to contact me or email me with questions about tutoring.

### **Emails:**

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

If I am teaching that particular day, I am generally available shortly after morning classes, briefly before and after afternoon classes, and about an hour before evening classes **BY APPOINTMENT ONLY**. If I do not have a student scheduled for an appointment, I usually leave campus right after class.

## COURSE SCHEDULE – 12 Week

Please note that we try to work in design industry related guest lecturers and/or field trips that might alter the course schedule. It is very important that we have your correct idi.edu email so that we might alert you should the class be meeting elsewhere. Please email me at [bsmith@idi.edu](mailto:bsmith@idi.edu) and I will place you in a contact list for this class and distribute this to your classmates. No personal email addresses other than IDI.edu will be accepted.

### CLASS 1: INTRODUCTION TO THE COURSE:

Discussion and **Quiz** of the video “Objectified”  
Principles & Elements of Design, Spatial Ordering  
Principles & Analyzing Space  
Open vs. Closed Space Impression  
Review Lamp Assignment (due week 6)  
Review Museum Post Occupancy Assignment (due week 6)  
**Assignment: Reading Ching-Chapters 1 & 2**  
**Assignment: Museum Post Occupancy Study (due week 6)**

### CLASS 2: DESIGN PRINCIPLES AND INCLUSIVE DESIGN:

Faculty lecture on Design Principles and 2D and 3D Elements of Design  
Faculty lecture on Ergonomics, Anthropometry & Inclusive Design  
**Assignment: Reading Ching-Chapters 3, 4 & 7**

### CLASS 3: ICONIC AND ANALOGIC EXEMPLIFIED:

Faculty lecture on Iconic and Analogic Design  
Review for vocabulary quiz  
Iconic model assignment – from 2D to 3D – Process sketches  
**Bring Cert. Space Plan to class next week and all markers & marker supplies**  
**Due next week: Iconic model with process sketches**

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

**Vocabulary Quiz**  
**Iconic model presentations** – Oral presentation on design principles represented in terms of line and planar organization and 2D to 3D  
In-class exercise with Certificate Space Plan (if time)  
**Due next week: Certificate Space Plan outlines**  
**Bring to class next week all markers & marker supplies**

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

Faculty lecture on light, view, and circulation and graphic representation  
Certificate Plan colorations in-class exercise  
Lighting Project – Building your own lamp  
Assign Architects/Designers for Research (due week 8)  
**Due next week: Lighting project**  
**Bring markers & marker supplies to class next week**  
**Assignment: Museum Post Occupancy Study (due next week)**

CLASS 6: LUMINARE PRESENTATION – MODEL BUILDING TECHNIQUES:

Presentation of lamps – let's turn them on!  
Review FoamCore Self Portrait Sculpture assignment  
Demonstration on model making techniques, craftsmanship, and safety  
Review Graphic Communication with Colorized Floor Plans (if time)  
**Due: Lighting Project Presentation**  
**Due: Museum Post Occupancy Study**  
**Due next week: FoamCore Self Portrait Sculpture**  
**Bring markers & marker supplies to class next week**

CLASS 7: DESIGN COMMUNICATION – GRAPHICS AND SPACEPLANS:

Presentation of FoamCore Self Portrait Sculptures  
Demonstration of graphic communication  
In-class work on Graphic Colorized Spaceplans  
Discussion of Research Assignment and Power Point Presentations  
**Due next week: Colorized Spaceplan**  
**Due next week: Power Point and Oral presentation of Research**  
**Due week 9: Presentation Binder with Architectural Lettering**

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

Oral presentation of Research Paper and Power Point  
Review Museum Program along with Final Project Requirements  
Repeat model making techniques, craftsmanship, and safety  
**Due next week: 1<sup>st</sup> phase of model construction (shell)**  
**Due next week: Presentation binder with Architectural Lettering**

CLASS 9: 3D MODEL PROGRESS/ CIRCULATION DIAGRAMS/METRIC SYSTEM:

In-class work session on floor plan  
Discussion on Metric System Conversion & **Quiz**  
**Due: Presentation Binder with Architectural Lettering**  
**Due: 1<sup>st</sup> phase of model construction (shell)**  
**Due next week: Graphic Circulation Diagram of First Floor and Mezzanine**  
**MAKE A COPY TO TURN IN!!!!**  
**Bring all model materials for remainder of classes**

Class 10: TEAM COLLABORATION CIRCULATION STUDIES:

In-class team collaboration on Circulation Studies and Design Concepts  
Presentation and Review of Graphic Circulation Diagrams  
**Due: Graphic circulation diagram - HAND IN FOR GRADE!**

CLASS 11: PREPARATION FOR FINAL PRESENTATIONS:

Discussion on Final Notebooks and Tabs

CLASS 12: FINAL PRESENTATIONS:

**Due: Casual presentation of model and elements within model**  
**Notebook: Per Notebook Format Sheet - Required assignments, tabs, order**

<b>Grading:</b>	Vocabulary Quiz:	25 pts.
	Activities:	
	Iconic Sculpture	25 pts.
	Light/View/Acoustic	25 pts.
	Colorized Floor Plan	25 pts.
	Lamp	25 pts.
	FoamCore Self Sculpture	25 pts.
	Post Occupancy Study	25 pts.
	Metric Quiz	10 pts.
	Research Assignment/Power Point	30 pts.
	Lettering Assignment	10 pts.
	Museum Circulation Plan	25 pts.
	Final Presentation	50 pts.
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	Total:	300 pts.

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