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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 1st 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 before evening classes **BY APPOINTMENT ONLY.**

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 kristin@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:

Review of syllabus and class supplies
Principles & Elements of Design, Spatial Ordering (handout)
Principles & Analyzing Space
Video: documentary “Objectified” –directed by Gary Hustwit
Lecture: Ergonomics, Anthropometry & Inclusive Design
Review Museum Post Occupancy Assignment (due week 6)
Reading Assignment: Ching-Chapters 1 & 2
Homework: Museum Post Occupancy Study (due week 6)
Homework: 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)
Reading Assignment: Reading Ching-Chapters 3, 4 & 7

CLASS 3: BLOCK LETTERING, QUIZ REVIEW, LAMP ASSIGNMENT:

Review for vocabulary quiz
Review Lamp Assignment (due week 6)
Lecture: Block lettering
Homework: Block lettering practice exercise
Bring 8 ½” x 11” Cert. Space Plan handout next week and all marker supplies
Homework: Iconic model with process sketches (due week 4)

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)
Homework: Certificate Space Plan outlines (due week 5)
Bring to class next week all markers & marker supplies

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

Lecture: Light, view, and circulation and graphic representation
Certificate Plan colorations in-class exercise
Review FoamCore Self Portrait Sculpture assignment (due week 7)
Assign Architects/Designers for Research (due week 8)

Bring markers & marker supplies to class next week

Homework: Museum Post Occupancy Study (due week 6)

Homework: Lighting project (due week 6)

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

CLASS 6: LUMINARE PRESENTATION – MODEL BUILDING TECHNIQUES:

Presentation of lamps – let's turn them on!

Demonstration on model making techniques, craftsmanship, and safety

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

Discussion of Research Assignment and Power Point Presentations

Homework: Power Point and Oral presentation of Research (due week 8)

Homework: Presentation Binder with Architectural Lettering (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

Repeat model making techniques, craftsmanship, and safety

Homework: 1st 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/METRIC SYSTEM:

In-class work session on museum floor plan

Review museum circulation plan

Discussion on Metric System Conversion & **Quiz**

Demonstration of graphic communication

Review Restaurant graphic colorized Floor Plans

Homework: Colorized Floorplan (due week 11)

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

MAKE A COPY TO KEEP AND TURN IN ORIGINAL!!!!

Bring all model materials for remainder of classes

Class 10: TEAM COLLABORATION CIRCULATION STUDIES:

Presentation and Review of Graphic Circulation Diagrams

In-class work session on museum model

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

Grading:	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.
	<u>Final Presentation</u>	<u>50 pts.</u>
	Total:	300 pts.

CONGRATULATIONS!!! YOU DID IT!!!