School of Art + Design
Art 451 – RESIDENTIAL INTERIOR DESIGN
Fall 2016

Instructor Contact Information
Lecturer: Rene Peralta
Office: ARTN - 302 B
Office hours: W 2:40 pm to 3:30 pm
Email: rperalta@generica.com.mx
Preferred contact method - email

Section and Enrollment Information
Class meeting: M/W 12:00 pm to 2:40 pm
Class location: ARTN - 304
Schedule number: 20267
Course prerequisites: Art 249, 250, 251.
Proof of completion of prerequisites required.

Course Description
Survey, analysis and conceptual design methods of residential interiors stressing materials, equipment, components and structural detailing.

This class involves an advanced study of interior design practice and process in residential context. Through background reading assignments, studio exercises and design projects, the following topics will be surveyed:

· Interior design profession and process
· Global design theories, concept development
· Structural components, spatial planning, residential building codes
· Aging in Place and Sustainable Design practices
· Materials, finishes, furnishings
· Construction documents
· Applications of presentation skills and techniques
Student Learning Outcomes

Students will be able to:
1. Collect, organize, and analyze research data that will guide their creative process.

2. Develop an awareness of the cultural and environmental influences in the practices of residential interior design + architecture and will be able to integrate that information into their design development.

3. Develop an awareness of the clients’ welfare, health, and safety requirements and will be able to incorporate that knowledge into their design solutions.

4. Apply elements and principles of design, and incorporate theories of design in order to create spatial relationships that are logical and complex.

5. Demonstrate technical proficiency and understanding of residential interior space design fundamentals through correct use of adjacencies, application of residential building codes and regulations, ADA clearance compliance.


7. Use residential finishing materials in correct applications.

8. Document their design process and final design solutions through technical documentation such as blueprints and FF&E specifications.

9. Articulate their design decision process through the use of both visual and verbal presentations.

10. Demonstrate currency and technical proficiency in visual presentation through the use of a variety of tools including PowerPoint, InDesign, AutoCAD, and Sketch-UP programs.

11. Evaluate and make critical judgments of a variety of design solutions.

12. Develop, design, and deliver innovative, conceptually driven yet highly technical interior design solutions in residential context.
Course Materials
Essential drafting tools and supplies including tracing paper pad or 12” roll and architectural scale
Additional materials will be required based on individual projects’ needs

Required Readings
Instructor will provide all required reading throughout the semester
Recommended Reading:
Nielson, Karla J., Taylor, David A. Interiors: An Introduction. (5th Ed.)

Assessment and Grading

<table>
<thead>
<tr>
<th>Assignments / Exams / Projects</th>
<th>Percentage of Total Grade</th>
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<tbody>
<tr>
<td>Project 1</td>
<td>25 %</td>
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<tr>
<td>Project 1.2</td>
<td>25 %</td>
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<tr>
<td>Project 2</td>
<td>40%</td>
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<tr>
<td>Attendance and Participation</td>
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<td>(TOTAL)</td>
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Final Grades

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<tr>
<th>Grade</th>
<th>Points</th>
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<td>94–100</td>
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<td>A-</td>
<td>90–93</td>
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<td>B+</td>
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<td>B</td>
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<td>B-</td>
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<td>≤ 59</td>
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Grading Policies
- Satisfactory completion of all of the course components is required for completion of the course.
- No late projects will be accepted. Submit incomplete projects on time. Grade point deduction will be based on the level of incompleteness.
- Please advise me directly and immediately of any personal emergencies that might affect your coursework.
- Extra-credit opportunities will be posted through ought the semester. Extra-credit might not exceed 20 points total and will be applied to exams only.
<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Readings to be completed prior to class</th>
<th>Assignments / Activities</th>
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<tbody>
<tr>
<td><strong>Week 1</strong></td>
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<tr>
<td>08/29</td>
<td>Introduction and class overview</td>
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<td>Project I research begins</td>
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<td>Student teams</td>
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<tr>
<td>08/31</td>
<td>Studio</td>
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<td>Lecture</td>
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<td><strong>Week 2</strong></td>
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<td>09/05</td>
<td>Labor Day</td>
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<td>09/07</td>
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<td>Reading 1</td>
<td>Desk Crit</td>
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<td>Plans and model review</td>
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<td>Sections begin</td>
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<td>11/02</td>
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<tr>
<td>11/07</td>
<td>Project 2</td>
<td>Project 2 Begins</td>
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<tr>
<td>11/09</td>
<td>Studio</td>
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<td>11/14</td>
<td>Case Study due</td>
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<td>11/16</td>
<td>Plans/Structure</td>
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<tr>
<td>11/21</td>
<td>Studio</td>
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<td>11/23</td>
<td>Plans/Structure study Due</td>
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<th>Week 14</th>
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<td>11/28</td>
<td>Study</td>
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<td>11/30</td>
<td>Elevations/Begin Model</td>
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Course Policies

- Outside communication will be conducted through email and Blackboard postings
- All assignments, projects, etc. will be posted on Blackboard in accordance with general class schedule
- Attendance is mandatory and is reflected in the grading policy
- Plagiarism - your written assignments will be checked through Turnitin.
- Use SDSU Writing Center (http://writingcenter.sdsu.edu/index.html) or similar services prior to turning your work in.
- Classroom etiquette:
  - Be prepared at all times
  - Courtesy and manners are expected at all times
  - Respect one another’s viewpoints
  - Clean up after yourself each and every time

Students with Disabilities

If you are a student with a disability and believe you will need accommodations for this class, it is your responsibility to contact Student Disability Services at (619) 594-6473. To avoid any delay in the receipt of your accommodations, you should contact Student Disability Services as soon as possible. Please note that accommodations are not retroactive, and that accommodations based upon disability cannot be provided until you have presented your instructor with an accommodation letter from Student Disability Services. Your cooperation is appreciated.
Class Bibliography:


Case Study Assignment.

Students will research different examples of 20th century dwellings and study through research and diagram the various types of interior and exterior spaces, circulation and tectonics. The projects will act as a point of departure in the investigations of “types” and “components”.

You will work to understand the relationship between two-dimensional drawings (isometric projections) and three-dimensional (model) form and see the relationships between the spatial intent of the project.
Students will form teams of 3 for this exercise. The instructor will assign the dwellings to study to each group.

**Dwelling list:**

1. Charles and Ray Eames House (1949) – Charles and Ray Eames
2. Vanna Ventury House (1964) – Robert Ventury and Denise Scott Brown
3. Villa Savoye (1931) - Le Corbusier
5. 2,4,6,8 House (1978) – Thom Mayne

**Output:**

You will research and draw a series of orthogonal views as well as oblique drawings that best represent the interior space of the project. All drawings should be drawn in black and white on white paper. You can use shading as long as it’s in degrees of grays. All drawings must be on 11 x 17 paper with a horizontal orientation. Scales for the drawings should be discussed by each group.

**Required Drawings:**

All plans of the project
Two sections (preferably one longitudinal and one transverse)
One circulation isometric
One Massing axonometric
One interior isometric
A one-page biography/summary of the architect and project

**Project Due:** September 14, 2016
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Project 1.2

The Planar Graft

Students will use the plans of the case study dwelling studied in Project 1 as a set of abstract line conditions. The purpose of this exercise is to investigate a different methodology of design away from traditional plan and function relationships. The student will use the technique of 'Grafting' as a way to construct new possible organizations of (residential) space. The methodology of grafting should allow the student to encounter or discover new spatial and formal relationships of the contemporary house. The hybrid character of the new plan should instigate the rethinking of new ways to navigate and form interior and exterior spaces. Yet, in this exercise inside/outside relationships are still blurred as well as vertical and horizontal scales.

Output:

You will choose two (minimum) plans from Project 1 and copy each one onto a sheet of acetate or clear paper. You will juxtapose the plan on top of each other to create a “NEW” plan from them. This New plan will be your Planar Graft. In order to achieve a successful graft you need to initially remove any text or symbols and keep only the line work of the plans. Also, it is imperative that at the end, the graft of the new plan does not show “too” many signs of the originals drawings. The more abstract the plan the better.

For Monday Sept. 26 you need to produce:
One copy of each selected plan from Project 1 and two variations of your Planar Graft, each one on a white 11x17 piece of paper. All drawings should be black and white with the possibility of shading in gray if needed.
Project 1.3

Architectural Program

The client for the residence that you will design through the manipulation of your planar graft exercise is one for a couple between 30 to 45 years old. These years are considered part of the Millennial demographic. Your client will be college graduates who are opening a start up company.

Their spatial necessities are the following:

- A small office for their start up business. Since they are investing in their company they will not pay rent and need to accommodate an office in their home. The office will be used by both clients and one hired professional. The office space is meant to be used 24 hours and be available at any hour of the day.

- One bedroom with full bath for the couple

- One extra bedroom with its own bathroom and entrance and other amenities since it will be used for guest or leased through Airbnb service.

- One exercise space with an adjacent lap pool

- Living room

- Dinning room

- Exterior entertaining area

- One car garage

- One compact kitchen

- Service room (laundry, storage)

- Private Roof terrace
Infrastructure:

- The house needs to have a low carbon footprint and it will require the following technologies:
  - The use of Passive heating and cooling techniques for a house located in San Diego, California
  - A water harvesting system for rainwater
  - Low water consumption on all landscape areas
  - Full Photovoltaic power for the home connected to the grid.

The House should not be larger than 1500 square feet. Lap pool not included. The size of the spaces will be decided by the students as the project develops.

Final Presentation Requirements:

On one 24x36 board (vertical) please include the following drawings and information.

1. Original floor plans of the case study houses you selected in project 1 (at any scale you see appropriate)
2. The final Planar graft drawing you made in project 1.2
3. All floor plans of the house design for project 1.3 (at any scale you see appropriate)
4. One section that best describes the interior spaces of your house.
5. One interior perspective that best show the different spaces and levels of your house.
6. One monochrome model of the house on a 1.5” high sturdy base.
7. One isometric view in black and white.

Include in the floor plans square feet of every room and also make sure you are in the range of 1500 square feet total. Floor plans should be with oriented with north up. All drawing should be computer drafted and printed with black ink on white background. The perspective and section drawings can be rendered either as a collage, by hand or on computer. You can mount the presentation on a board if you need too. Please include name, class and date. Give your house a title.

Note: you can include photos of your model in different lighting conditions in the presentation.

Project is due for review by invited jury on: November 02, 2016. 12:00 PM
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Fall 2016

Project 2 - Final Project

Esperanza Portable Shelter

The organization (client)

During the late 70’s the city of Tijuana became one the fastest growing cities in the Mexico. Manufacturing plants began to appear throughout the city increasing job opportunities for large sectors of the population. These migratory flows have become a heavy burden for the local government trying to provide services for the new settled inhabitants.

In the 1980s and operating within these conditions, Fundacion Esperanza de Mexico (FEM) a Non-Profit Organization, began its efforts to offer a solution to improve living conditions in the city and foremost in its periphery.

Its mission is to promote community development in population areas with scarce resources, desiring to improve their quality of life through self-built housing.

Its vision is to encourage individual and family level self-initialed projects that have a multiplying affect around the city. To involve governments and society in the promotion of dignified housing.

The Program

Esperanza de Mexico works with families who have had the opportunity to acquire a piece of land in the outskirts of the city. These families are low-wage workers who live paycheck to paycheck and have not been able to build decent and dignified housing for themselves. The FEM program involves the creation of a community fund, where a group of families (10-12) saves as much as possible for the construction of a new home. After a time frame of 8 months the first family is ready to begin the construction of their modular house made of concrete blocks. Volunteers that come from the United States, Mexico and as far as Australia build the house or modules.
The Challenge

The constructions of the house or modules can take as long as 2 months and due to the small size of the lots the original houses they used to live in must be removed from site. It is important to mention that the original house of the family most of the time is built with scraps of wood and recycled material such as old garage doors that come from California.

The challenge for this project is to design a small shelter that could serve as temporary housing during the couple of months the module house is being finished.

The Details

The dimensions of the modular unit cannot exceed 10'W x 20'L x 8'H since the sites are usually small and must be out of the way of construction. Take into consideration that a single person, a couple or couple with one child can use it.

The Criteria and program is the following:

1. The design must be able to be transported to the site by car or hauled by a small pick-up truck.
2. It must be able to be built quickly (in half a day) and easy for a non-skilled person to set up. Think of a Kit of Parts.
3. It must be able to conform to different site slopes.
4. It must include a small kitchen that will be used with a gas canister.
5. It must have a small solar power system to run lights and a small refrigerator.
6. It must have a full bathroom (the toilet waste will be sent to a bio-digester outside)
7. It must have sleeping and sitting areas or built in furniture
8. It must have windows for light and cross ventilation.
9. Its interior must be simple and easy to clean.
10. Do not use containers!

The important concepts are: Modularity, Transportable, Kit of Parts, Snap-on design, DIY construction, Prefabrication, Self-sufficient, Comfortable and Inspiring!
Case Studies:

1. Zip House, Richard Rogers
2. Dymaxion House, Buckminster Fuller
3. Living Pod, Archigram
4. Nagakin Tower, Kurokawa
5. Demountable House, Jean Prouve
6. Loftcube, Aisslinger
7. MDSS, Wes Jones
8. Portable House, Office of Mobile Design
9. Micro-Compact Home, Richard Horden
10. Orientation and Shelter Place, Julien Beller
11. Airstream

Prepare a 10 slide presentation of one case study in the list above. The presentation should include: History, Architect or Designer, Dimensions, Structural System, Interior Distribution, Construction Technique, Materials Used.

Due Date: November 14

Final Design
Plans and Structure

Develop your working floor plan and structural system concept for your project. All work should be drawn at $\frac{1}{2}'' = 1'-0''$ scale.
Due Date: November 23

Develop your Final Elevations and begin working on your final model. Elevations and Model should be at $\frac{1}{2}'' = 1'-0''$ scale.
Develop your presentation board: one 24x36 vertical board.

Due Date: December 12