

**San José State University**  
**Department of Design / Industrial Design Program**  
**DSID123, Intermediate Industrial Design, Fall 2018**

<b>Instructor:</b>	Prof. Mike Mathe
<b>Office Location:</b>	ART 105
<b>Telephone:</b>	(408) 499-9736
<b>Email:</b>	MikeMathe@Gmail.com
<b>Office Hours:</b>	By appointment Wednesdays 11:25pm - 2:25pm
<b>Virtual Office Hours:</b>	Thursday / Friday Via skype or hangouts 11:25pm - 2:25pm
<b>Classroom:</b>	Art 103
<b>Prerequisites:</b>	DSID 32A; Phys 1; or Instructor Permission
<b>Course Fees:</b>	A percentage of your fees are used in the maintenance of the prototyping facility equipment. The Department of Design requires that Industrial Design students attend and pass the shop safety orientation at least once each year. A shop test date will be reserved within the first two-three weeks of the term. You must provide proof of enrollment and a receipt from the bursar's office that you have paid the required \$20 shop fee to fund #62089 prior to taking the test.

### **Canvas Course Management Website**

This course uses a hybrid method of teaching. A hybrid course means that there are components of the course that are done in the classroom and other components that require using the online course management system. Course materials such as the syllabus, assignment handouts, grading, etc. may be found on the DSID 123 course Canvas website. You may find your link to this website on MySJSU, along with your login/password info. You are responsible for regularly checking with the messaging system in Canvas for course updates, assignments, etc. All class correspondence and grading will also be managed through the class Canvas site. If you do not check Canvas often, you should set up your email forwarding to forward all class correspondence to your preferred email address. You must have access to a computer and the internet to be able to access the Canvas site. You may also use a tablet or

your phone. Some assignments will be required to be turned in on Canvas, in which case you will need to have access to some basic software such as MS Office (MS Word) or some writing software, Adobe Acrobat (for making pdfs), and basic scanning software for scanning sketches to upload to the assignment portal. See University Policy F13-2 at <http://www.sjsu.edu/senate/docs/F13-2.pdf> for more details.

## **Course Description**

This course will focus on design theories, design methods and presentation techniques used by product designers in small-scale product design. It will stress the introduction to and application of behavioral research, ergonomics, industrial materials and manufacturing processes. There will be a particular emphasis placed on understanding how designers develop form languages that represent a brand or set of values or ideas.

## **Course Goals:**

### **Student Learning Objectives**

The project objective will be to develop design solutions for the following products: home focused (1) lighting and (2) time-keeping artefacts. Students will craft designs specifically for one of the following brands: (1) Apple, (2) Dyson, (3) Muji or (4) Oxo. This will be done through two product development cycles (1.0 and 2.0). Cycle 1.0 will focus on brand alignment through innovations in form. Cycle 2.0 will focus on the creation of human-centered product innovations. Each cycle will consist of four phases: discovery, exploration, refinement and final.

### **Course Learning Objectives (CLO)**

Upon successful completion of this course, students will be able to:

- LO1: Identify problems and product opportunities and formulate them into manageable project proposals.
- LO2: Demonstrate effective design process through their use of two-dimensional and three-dimensional sketching and experimentation that enables them to explore, formulate and solve design problems and opportunities.
- LO3: Construct a design concept by studying user needs and existing products.
- LO4: Employ different types of research (competitive product research, ethnographic research, technology research), information gathering and analysis

- LO5: Demonstrate a basic knowledge of applied ergonomics concepts in the form of useful, understandable and comfortable product concepts.
- LO6: Demonstrate a basic knowledge of materials and manufacturing processes by specifying appropriate materials and processes for the production of their design concepts.
- LO7: Practice an uncompromising and high professional standard for three-dimensional design and prototyping skills, techniques, tools, materials, and craftsmanship.
- LO8: Apply appropriate formal language to a product to communicate the product use and purpose in a successful form that demonstrates their understanding of formal design elements and organizing principles acquired in previous DSID coursework.
- LO9: Demonstrate effective use of orthographic projection drawing as a means of developing design concepts that are realistic and functional, specifying accurate plans for building appearance prototypes and, communicating their design concepts with accurate dimensions and realistic representations of internal components.
- LO10: Summarize their entire project in text/image document. Demonstrate the ability to clearly communicate their design concepts.
- LO11: Employ design awareness, knowledge, and intent, both in their own work and when discussing the work of others in informal classroom discussions as well as formal critiques at the end of each project. This should be demonstrated in their ability to actively discuss, critique, and engage in professional review of their work and that of their peers work.

## **Required Texts/Readings**

### **Required Reading List**

Ulrich, Karl and Eppinger, Steven; 2011; *Product Design and Development*, McGraw-Hill; pp. 123-141.

These and other handouts will be provided on the DSID123 CANVAS site or at the King Library as needed throughout the semester.

### **Recommended Reading List**

There are several other books that are highly recommended for this course. These are all books that are recommended as part of any Industrial Designer's permanent library and will be either assigned or referenced in future DSID courses. These books are:

Hara, Kenya; 2007; *Designing Design*, Lars Muller Verlag.

Zeisel, John, Revised Ed., 2006, *Inquiry By Design*, W. W. Norton & Company.

Norman, Don; 2002, *Design of Everyday Things*, Basic Books.

Buxton, Bill; 2007; *Sketching User Experiences*, Morgan Kaufman.

Sclater, Neil and Chironis, Nicholas; 2007, *Mechanisms and Mechanical Devices Sourcebook*, McGraw-Hill.

Thompson, Rob; 2007, *Manufacturing Processes for Design Professionals*, Thames & Hudson.

Lefteri, Chris; 2007, *Making It: Manufacturing Techniques for Product Design*, Laurence King Publishing.

### **Required Materials List**

There will be additional tools and materials required to complete the course assignments. Past examples of tools have included respirators, files, saws, foam carving tools and other hand tools that students utilize in model making (approx \$300). Many of these would have been purchased in DSID31 and DSID32 but you should budget at least \$200 in case you find yourself needing additional tools.

#### **Prototyping materials include:**

There will be additional tools and materials required to complete the course assignments. This has, in the past, cost students from \$500 to as high as \$800 depending on the scale and complexity of a student's final design direction. Due to this variation, we suggest that you budget towards the higher amounts to be safe. Prototyping materials are difficult to calculate as this course generates student projects that vary widely in scale and complexity. Some of the materials you should expect to purchase include:

1) Urethane modeling foam (\$160-\$320)

<http://www.mcmaster.com/-standard-urethane-foam-sheets/=inzoq8>

**NOTE:** All students are required to have at least one 24"x48"x4" block of urethane-foam by the beginning of class 9-5-2018. Proof of purchase and the block of foam is required. <http://www.mcmaster.com/-standard-urethane-foam-sheets/=inzoq8>

2) Modulan foam, if needed (available in the Spartan Bookstore and from the IDSA Student Chapter \$50-\$200 depending on how many boards your project requires)

3) Sandpaper (100, 150, 220 and 400 grit approx.\$100)

4) Body filler and spot putty (Evercoat or Bondo approx. \$40)

- 5) Paint and primer (we recommend Duplicolor brand paints or canned paint from Lowe Paint approx.\$100)
- 6) Foamcore (\$30)
- 7) Medium Density fiberboard (\$50)
- 8) Wood, if needed (\$100)
- 9) Sheets, rods and/or tubes of Plastic, if needed (\$150)

### **Shop Test**

The Department of Design requires that Industrial Design students attend and pass the shop safety orientation at least once each year. We will be showing the video in class and then you will have at least a week to review the video again on your own as it is posted online

(<http://www.sjsu.edu/atn/services/webcasting/events/shopysafety.html>) now. The shop test date will be announced the first day of class. That will be the only date that you will be able to take the shop test for this course so make sure you have studied up and paid your shop test fee at the bursar's office before that date. You must provide proof of enrollment and the original receipt from the bursar's office that you have paid the required \$20 shop fee to fund #62089 prior to taking the test.

### **Course Fees**

Course fees collected for DSID123 (\$45) will be used to supplement some costs of modeling supplies for this class and for running the ID Labs and maintaining equipment.

### **Library Liaison**

Rebecca Kohn, Liaison Librarian for Design Department

Email: [Rebecca.Kohn@sjsu.edu](mailto:Rebecca.Kohn@sjsu.edu)

Phone: (408) 808-2007

### **Classroom Protocol**

Active participation in class activities is a significant factor in a student's success in the Industrial Design program. Active learning facilitates mental growth, skill enhancement, creates a life long learner and improves the goals of becoming a good designer. Students are expected to be on time to class and when a class critique is planned, work is to be displayed on the table at the center of the room by 10 minutes after the official start of the class period. Be ready to start the critique by 15 minutes after the class officially starts. Students are to be respectful of the professor and their peers and any disruptive activities in the classroom will result in the student being asked to leave the class. Arriving late to class without prior arrangement and approval from the professor is considered disruptive. If the student cannot be in the classroom by the start of class, please do not interrupt the class in session by entering the classroom. If a student encounters any problems that inhibit their ability to

participate in the class, please provide as much advance notice as possible to the instructor so that he/she may respond and inform the student in a timely manner. Students are expected to leave the classroom in a clean condition at the end of each class meeting so that the next class has an organized, clean room waiting for them.

Cell phones, organizers, laptops are also disruptive and inconsiderate to your classmates and instructors. *Phones are NOT permitted in this class* and you will be asked to turn off and surrender your phone at the start of each class. If you disrupt or withdraw from class activities due to your inability to silence your devices, it will count against the participation portion of your final grade (LO 11). If personal issues (family, medical, etc) require you to leave your phone on, you may do so by making arrangements with the instructor in advance. With this in mind, your instructor may need to answer his phone during class due to professional demands or university business but will try to keep this to a minimum during the semester.

Success in this course is based on the expectation that students will spend, for each unit of credit, a minimum of 45 hours over the length of the course (normally three hours per unit per week) for instruction, preparation/studying, or course related activities, including but not limited to internships, labs, and clinical practica. Other course structures will have equivalent workload expectations as described in the syllabus.

### **Assignments and Grading Policy**

Students will be engaged in demos, discussions and critiques during class meeting times and they will be assessed on engagement in those activities in their Participation grade (LO10). Students will have homework assignments to do outside of class (12-18 hours per week) that include reading and writing assignments, research activities and, two- and three-dimensional sketching and drawing assignments as required by the course assignments (LO 1-10). Students will be required to be present to discuss their work in classroom critiques (LO 10). Grading will follow the standard SJSU A-F system.

A+, A, A- / 100+ - 91% / Excellent  
 B+, B, B- / 90 – 81% / Above Average  
 C+, C, C- / 80-71% / Average  
 D / 70-61% / Below Average  
 F / Below 61% / Failure

Grading is weighted as follows:

Participation:	% 15
Discovery:	% 10
Exploration:	% 15
Refinement:	% 20
Final:	% 25

Project Deliverables %15

All assignments are due on time. ***No late work is accepted.*** Extra credit is not possible in this course as the workload is significant enough. Course credit is achieved with a grade of D- however that level of grade will post challenges in passing your next portfolio project course, DSID 123A. The Participation grade in this course will be assessed through your engagement in Work/Practice sessions, class discussions and critique. Actively engaging and exhibiting life-long learning skills during class are the mode by which participation is assessed.

### University Policies

SJSU’s Office of Graduate and Undergraduate Programs maintains university-wide policy information relevant to all courses, such as academic integrity, accommodations, etc. You may find all syllabus related University Policies and resources information listed on [GUP’s Syllabus Information Web Page](http://www.sjsu.edu/gup/syllabusinfo/) at <http://www.sjsu.edu/gup/syllabusinfo/>.

## DSID 123 / Intermediate ID, Fall 2018 Course Schedule

*Schedule is subject to change with fair notice (one week) in class or via notice on Canvas.*

Week	Date	Topics, Readings, Assignments, Deadlines
1	8/22	<p><b>Class Introduction:</b> Review of syllabus, course content, assignment structure and deliverables, course expectations.</p> <p><b>Lecture / Demo: L1:</b> Cycle 1.0 Design Brief: Create a New Product for a Specific Brand, Classroom setup and seating, Break into 2 teams Monday and Wednesday</p> <p><b>Assignment:</b></p> <ol style="list-style-type: none"> <li>1. Choose 1 of 4 brands to work with this semester</li> <li>2. Begin researching your brand and bring 3 cool facts to share with the class</li> <li>3. Watch Shop Safety Video (<a href="http://www.sjsu.edu/atn/services/webcasting/events/shopysafety.html">http://www.sjsu.edu/atn/services/webcasting/events/shopysafety.html</a>)</li> </ol> <p><b>Due:</b> NA</p>
2	8/27	<p><b>1.0 Discovery Phase</b></p> <p><b>Lecture / Demo L2:</b> Understanding the Brands, the Products and the People / Review Sketchbooks and process books / Discuss you brands in class / Split into teams of 3 or 4 based on your brand</p> <p><b>Assignment:</b></p> <ol style="list-style-type: none"> <li>1. 1.0 Research Presentations</li> <li>2. Start Sketchbook</li> <li>3. Start Process Book</li> </ol>

		<p>4. Watch Shop Safety Video AGAIN (<a href="http://www.sjsu.edu/atn/services/webcasting/events/shopysafety.html">http://www.sjsu.edu/atn/services/webcasting/events/shopysafety.html</a>)</p> <p><b>Due:</b></p> <p>5. Bring information about you brand to class to discuss</p>
	8/29	<p><b>1.0 Discovery Phase</b></p> <p><b>Lecture / Demo:</b> In class discussion regarding brands and chosen products / Work in research teams</p> <p><b>Assignment:</b></p> <ol style="list-style-type: none"> <li>1.0 Formal Inspiration Board 1</li> <li>1.0 Concept Sketching 1</li> </ol> <p><b>Due:</b></p>
3	9/3	<i>Labor Day (No Class)</i>
	9/5	<p><b>1.0 Discovery Phase</b></p> <p>&gt;&gt;Shop Test 3:30pm - 4:30pm, \$20 Bursar's required&lt;&lt; (<a href="http://www.sjsu.edu/atn/services/webcasting/events/shopysafety.html">http://www.sjsu.edu/atn/services/webcasting/events/shopysafety.html</a>)</p> <p><b>Due:</b> 1.0 Team Research Presentations in class and uploaded to Canvas</p>
4	9/10	<p><b>1.0 Exploration Phase</b></p> <p><b>Lecture / Demo:</b> Review sketching and inspiration boards in class / Explain working in class and expectations</p> <p><b>Team Monday</b></p> <p><b>Assignment:</b> 1.0 Concept Mockups &amp; Sketching 2</p> <p><b>Due:</b></p> <ol style="list-style-type: none"> <li>1.0 Concept Sketching 1</li> <li>1.0 Formal Inspiration Board 1</li> </ol> <p><b>Team Wednesday</b></p> <p><b>Assignment:</b></p> <ol style="list-style-type: none"> <li>1.0 Concept Mockups &amp; Sketching 2</li> </ol> <p><b>Due:</b> NA</p>
	9/12	<p><b>1.0 Exploration Phase</b></p> <p><b>Lecture / Demo:</b> Review sketching and inspiration boards in class</p> <p><b>Team Monday</b></p> <p><b>Assignment:</b></p> <ol style="list-style-type: none"> <li>1.0 Concept Mockups &amp; Sketching 2</li> </ol> <p><b>Due:</b> NA</p>



		<p><b>Team Wednesday</b></p> <p><b>Assignment:</b></p> <ol style="list-style-type: none"> <li>1. 1.0 Concept Mockups &amp; Sketching 2</li> </ol> <p><b>Due:</b></p> <ol style="list-style-type: none"> <li>1. 1.0 Concept Sketching 1</li> <li>2. 1.0 Formal Inspiration Board 1</li> </ol>
5	9/17	<p><b>1.0 Refinement Phase</b></p> <p><b>Lecture / Demo:</b> Review Student work in class</p> <p><b>Team Monday</b></p> <p><b>Assignment:</b></p> <ol style="list-style-type: none"> <li>1. 1.0 Refinement Mockups &amp; Sketches 1</li> <li>2. 1.0 Formal Inspiration Board 2</li> </ol> <p><b>Due:</b></p> <ol style="list-style-type: none"> <li>1. 1.0 Concept Mockups &amp; Sketching 2</li> </ol> <p><b>Team Wednesday</b></p> <p><b>Assignment:</b></p> <ol style="list-style-type: none"> <li>1. 1.0 Refinement Mockups &amp; Sketches 1</li> <li>2. 1.0 Formal Inspiration Board 2</li> </ol> <p><b>Due:</b> NA</p>
	9/19	<p><b>1.0 Exploration Phase</b></p> <p><b>Lecture / Demo:</b> Review Student work in class</p> <p><b>Team Monday</b></p> <p><b>Assignment:</b></p> <ol style="list-style-type: none"> <li>1. 1.0 Refinement Mockups &amp; Sketches 1</li> <li>2. 1.0 Formal Inspiration Board 2</li> </ol> <p><b>Due:</b> NA</p> <p><b>Team Wednesday</b></p> <p><b>Assignment:</b></p> <ol style="list-style-type: none"> <li>1. 1.0 Refinement Mockups &amp; Sketches 1</li> <li>2. 1.0 Formal Inspiration Board 2</li> </ol> <p><b>Due:</b></p> <ol style="list-style-type: none"> <li>1. 1.0 Concept Mockups &amp; Sketching 2</li> </ol>

<p>6</p>	<p>9/24</p>	<p><b>1.0 Refinement Phase</b></p> <p><b>Lecture / Demo:</b> Review Student work in class / Concept Selection Demo</p> <p><b>Team Monday</b></p> <p><b>Assignment:</b></p> <ol style="list-style-type: none"> <li>1. 1.0 Refinement Mockups &amp; Sketches 2</li> <li>2. 1.0 Concept Selection (reading and assignment)</li> </ol> <p><b>Due:</b></p> <ol style="list-style-type: none"> <li>1. 1.0 Refinement Mockups &amp; Sketches 1</li> <li>2. 1.0 Formal Inspiration Board 2</li> </ol> <p><b>Team Wednesday</b></p> <p><b>Assignment:</b></p> <ol style="list-style-type: none"> <li>1. 1.0 Refinement Mockups &amp; Sketches 1</li> <li>2. 1.0 Concept Selection (reading and assignment)</li> </ol> <p><b>Due:</b> NA</p>
	<p>9/26</p>	<p><b>1.0 Refinement Phase</b></p> <p><b>Lecture / Demo:</b> Review Student work in class / Concept Selection Demo</p> <p><b>Team Monday</b></p> <p><b>Assignment:</b></p> <ol style="list-style-type: none"> <li>1. 1.0 Refinement Mockups &amp; Sketches 1</li> <li>2. 1.0 Concept Selection (reading and assignment)</li> </ol> <p><b>Due:</b> NA</p> <p><b>Team Wednesday</b></p> <p><b>Assignment:</b></p> <ol style="list-style-type: none"> <li>1. 1.0 Refinement Mockups &amp; Sketches 2</li> <li>2. 1.0 Concept Selection (reading and assignment)</li> </ol> <p><b>Due:</b></p> <ol style="list-style-type: none"> <li>1. 1.0 Refinement Mockups &amp; Sketches 1</li> <li>2. 1.0 Formal Inspiration Board 2</li> </ol>
<p>7</p>	<p>10/1</p>	<p><b>1.0 Refinement Phase</b></p> <p><b>Lecture / Demo:</b> Review Student work in class / Discuss final presentations and deliverables</p> <p><b>Team Monday</b></p> <p><b>Assignment:</b></p> <ol style="list-style-type: none"> <li>1. 1.0 Presentation Final Design &amp; Model</li> </ol> <p><b>Due:</b></p> <ol style="list-style-type: none"> <li>1. 1.0 Refinement Mockups &amp; Sketches 2</li> </ol>

		<p>2. 1.0 Concept Selection</p> <p><b>Team Wednesday</b>  <b>Assignment:</b>                  1. 1.0 Presentation Final Design &amp; Model  <b>Due:</b> NA</p>
	10/3	<p><b>1.0 Refinement Phase</b></p> <p><b>Lecture / Demo:</b> Review Student work in class / Discuss final presentations and deliverables</p> <p><b>Team Monday</b>  <b>Assignment:</b>                  1. 1.0 Presentation Final Design &amp; Model  <b>Due:</b> NA</p> <p><b>Team Wednesday</b>  <b>Assignment:</b>                  1. 1.0 Presentation Final Design &amp; Model  <b>Due:</b>                  1. 1.0 Refinement Mockups &amp; Sketches 2                  2. 1.0 Concept Selection</p>
8	10/8	<p><b>1.0 Final Phase</b>                  Work Day</p>
	10/10	<p><b>1.0 Final Phase</b>                  Work Day</p>
9	10/15	<p><b>1.0 Final Phase End /</b>  <b>Lecture / Demo:</b> Phase 1.0 Final presentation All Students  <b>Due both teams:</b> 1.0 Presentation Final Design &amp; Model</p>
	10/17	<p><b>Begin 2.0 Discovery Phase</b></p> <p><b>Lecture / Demo:</b> Phase 2.0 Design Brief: Creating Human-centered Product Innovations</p> <p><b>Team Monday</b>  <b>Assignment:</b>                  1. 2.0 Research Presentations                  2. 2.0 Concept Sketching 1  <b>Due:</b> NA</p> <p><b>Team Wednesday</b>  <b>Assignment:</b></p>

		<ol style="list-style-type: none"> <li>1. 2.0 Research Presentations</li> <li>2. 2.0 Concept Sketching 1</li> </ol> <p><b>Due: NA</b></p>
10	10/22	<p><b>2.0 Exploration Phase</b></p> <p><b>Lecture / Demo:</b> Review Student work in class</p> <p><b>Team Monday</b>  <b>Assignment:</b></p> <ol style="list-style-type: none"> <li>1. 2.0 Concept Mockups &amp; Sketching 2</li> </ol> <p><b>Due:</b></p> <ol style="list-style-type: none"> <li>1. 2.0 Concept Sketching 1</li> <li>2. 2.0 Research Presentations</li> </ol> <p><b>Team Wednesday</b>  <b>Assignment:</b></p> <ol style="list-style-type: none"> <li>1. 2.0 Concept Mockups &amp; Sketching 2</li> </ol> <p><b>Due: NA</b></p>
	10/24	<p><b>2.0 Exploration Phase</b></p> <p><b>Lecture / Demo:</b> Review Student work in class</p> <p><b>Team Monday</b>  <b>Assignment:</b></p> <ol style="list-style-type: none"> <li>1. 2.0 Concept Mockups &amp; Sketching 2</li> </ol> <p><b>Due: NA</b></p> <p><b>Team Wednesday</b>  <b>Assignment:</b></p> <ol style="list-style-type: none"> <li>1. 2.0 Concept Mockups &amp; Sketching 2</li> </ol> <p><b>Due:</b></p> <ol style="list-style-type: none"> <li>1. 2.0 Concept Sketching 1</li> <li>2. 2.0 Research Presentations</li> </ol>
11	10/29	<p><b>2.0 Exploration Phase</b></p> <p><b>Lecture / Demo:</b> Review Student work in class</p> <p><b>Team Monday</b>  <b>Assignment:</b></p> <ol style="list-style-type: none"> <li>1. 2.0 Refinement Mockups &amp; Sketches 1</li> </ol> <p><b>Due:</b></p> <ol style="list-style-type: none"> <li>1. 2.0 Concept Mockups &amp; Sketching 2</li> </ol> <p><b>Team Wednesday</b>  <b>Assignment:</b></p> <ol style="list-style-type: none"> <li>1. 2.0 Refinement Mockups &amp; Sketches 1</li> </ol> <p><b>Due: NA</b></p>

	10/31	<p><b>2.0 Exploration Phase</b></p> <p><b>Lecture / Demo:</b> Review Student work in class</p> <p><b>Team Monday</b>  <b>Assignment:</b>  1. 2.0 Refinement Mockups &amp; Sketches 1  <b>Due:</b> NA</p> <p><b>Team Wednesday</b>  <b>Assignment:</b>  1. 2.0 Refinement Mockups &amp; Sketches 1  <b>Due:</b>  1. 2.0 Concept Mockups &amp; Sketching 2</p>
12	11/5	<p><b>2.0 Refinement Phase</b></p> <p><b>Lecture / Demo:</b> Review Student work in class</p> <p><b>Team Monday</b>  <b>Assignment:</b>  1. 2.0 Refinement Mockups &amp; Sketches 2  <b>Due:</b>  1. 2.0 Refinement Mockups &amp; Sketches 1</p> <p><b>Team Wednesday</b>  <b>Assignment:</b>  1. 2.0 Refinement Mockups &amp; Sketches 1  <b>Due:</b> NA</p>
	11/7	<p><b>2.0 Refinement Phase</b></p> <p><b>Lecture / Demo:</b> Review Student work in class</p> <p><b>Team Monday</b>  <b>Assignment:</b>  1. 2.0 Refinement Mockups &amp; Sketches 2  <b>Due:</b> NA</p> <p><b>Team Wednesday</b>  <b>Assignment:</b>  1. 2.0 Refinement Mockups &amp; Sketches 1  <b>Due:</b>  1. 2.0 Refinement Mockups &amp; Sketches 1</p>

13	11/12	<b>Non-Instructional Day (No Class)</b>
	11/14	<p><b>2.0 Refinement Phase</b></p> <p><b>Lecture / Demo:</b> Review Student work in class</p> <p><b>Team Monday AND Wednesday</b></p> <p><b>Assignment:</b></p> <ol style="list-style-type: none"> <li>2.0 Final Design Sketch Renderings &amp; Orthographics</li> </ol> <p><b>Due:</b></p> <ol style="list-style-type: none"> <li>2.0 Refinement Mockups &amp; Sketches 2</li> <li>2.0 Concept Selection</li> </ol>
14	11/19	<p><b>P2.0 Final Phase</b></p> <p>Work Day</p>
	11/21	<b>Non-Instructional Day (No Class)</b>
15	11/26	<p><b>2.0 Final Phase</b></p> <p><b>Lecture / Demo:</b> Review Student work in class</p> <p><b>Team Monday</b></p> <p><b>Assignment:</b></p> <ol style="list-style-type: none"> <li>P2.0 Final Models &amp; Presentations</li> <li>2.0 Status Report</li> </ol> <p><b>Due:</b></p> <ol style="list-style-type: none"> <li>2.0 Final Design Sketch Renderings &amp; Orthographics</li> </ol> <p><b>Team Tuesday</b></p> <p><b>Assignment:</b></p> <ol style="list-style-type: none"> <li>P2.0 Final Models &amp; Presentations</li> <li>2.0 Status Report</li> </ol> <p><b>Due:</b> NA</p>
	11/28	<p><b>2.0 Final Phase</b></p> <p><b>Lecture / Demo:</b> Review Student work in class</p> <p><b>Team Monday</b></p> <p><b>Assignment:</b></p> <ol style="list-style-type: none"> <li>P2.0 Final Models &amp; Presentations</li> <li>2.0 Status Report</li> </ol> <p><b>Due:</b> NA</p>

		<p><b>Team Tuesday</b></p> <p><b>Assignment:</b></p> <ol style="list-style-type: none"> <li>1. P2.0 Final Models &amp; Presentations</li> <li>2. 2.0 Status Report</li> </ol> <p><b>Due:</b></p> <ol style="list-style-type: none"> <li>1. 2.0 Final Design Sketch Renderings &amp; Orthographics</li> </ol>
16	12/3	<p><b>P2.0 Final Phase</b></p> <p>Work Day</p> <p><b>Due:</b> 2.0 Status Report</p>
	12/5	<p><b>P2.0 Final Phase</b></p> <p>Work Day</p> <p><b>Due:</b> 2.0 Status Report</p>
17	12/10	<p><b>Team Monday</b></p> <p><b>P2.0 Final Phase</b></p> <p><b>Due:</b> P2.0 Final Models &amp; Presentations</p>
	12/12	<p><b>Team Tuesday</b></p> <p><b>P2.0 Final Phase</b></p> <p><b>Due:</b> P2.0 Final Models &amp; Presentations</p>
18	12/17	<p><b>FINAL: Monday, December 17th from 2:45pm - 5:00pm</b></p> <p><b>Upload only no Hard copies only needed for review</b></p> <p><b>Due:</b> Process Book</p> <p><b>Due:</b> Sketchbook</p>
	12/19	NA