CARLETON UNIVERSITY
School of Industrial Design

IDES 2302 - Projects IIB - Winter 2019

COURSE OUTLINE

Instructors
Chantal Trudel (Section A)
3476, Mackenzie Bldg. (ME)
(w) 613-520-2600 ext. 5626 (e) chantal.trudel@carleton.ca
Yana Klimava (Section B)
446, Azrieli Pavilion (AP)
(e) yana.klimava@carleton.ca

Office Hours
Office hours outside of studio are by appointment.

Teaching Assistant
Vincere Ip, VincereIp@cmail.carleton.ca

Office Hours
During class and by appointment.

Course Time and Location
Mon. (Sect. A), Tues. (Sect. B), 9:35-12:30, 13:30-16:25
Room 448A Azrieli Pavilion (AP)

Course Description
Introduction to the design principles associated with adapting products to an existing semantic. Topics covered: principles of design, product semantics, design analysis, design synthesis, design evaluation, and modeling techniques. The design project(s) explore some or all of the design principles covered in the lectures.

Learning Outcomes
By the end of this course, students will be able to:

1. Apply product analysis and synthesis theory from IDES 1001.
2. Apply wood and metal material and manufacturing theory from IDES 2101.
3. Apply polymer material and manufacturing theory from IDES 2102.
4. Integrate multi-sensory aspects of design introduced in IDES 2205.
5. Build on freehand orthographic and perspective sketching competency including construction, line-weight management, shading and shadows from IDES 2300 to effectively demonstrate a working knowledge of the design sketch.
6. Analyze the visual language of a brand in terms of brand characteristics and design cues.
7. Incorporate design constraints in projects including standards.
8. Incorporate and discuss product design semantics introduced in IDES 2205.
9. Build on knowledge of technical drawings introduced in IDES 1301 to produce General Arrangement drawings showing all parts and assembly including a Bill of Materials.
10. Compile and present professional looking presentation boards using analog and/or digital methods.
11. Work safely in labs and studio under supervision and develop physical prototyping and modelmaking knowledge and skills in medium to high fidelity materials using analog tools. Demonstrate professional behaviour.
12. Design as part of a team.
<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
<th>Studio Activity</th>
<th>Deliverables</th>
</tr>
</thead>
<tbody>
<tr>
<td>J 7/8</td>
<td>P1 Introduction</td>
<td>Course Introduction. Discussion on clutter.</td>
<td></td>
</tr>
<tr>
<td>J 14/15</td>
<td>P1 Progress meetings: initial ideas</td>
<td>Discussion on low and high-fidelity modelling. Project 1: Individual meetings: observation, analysis, synthesis and conceptualization. Meetings and individual reviews.</td>
<td>Project 1: 1 - Collage + Sketch Analysis (identify issues + opportunities)</td>
</tr>
<tr>
<td>J 21/22</td>
<td>P1 Progress meetings: concept sketches</td>
<td>Presentation on materials and modelling. Individual discussions of proposed concepts for the given clutter problem.</td>
<td>Project 1: 2 - Concept sketches &amp; lo-fidelity models</td>
</tr>
<tr>
<td>J 28/29</td>
<td>P1 Progress meetings</td>
<td>Project 1: Work on final design boards and appearance models. Schedule time with instructor to go over progress/issues.</td>
<td></td>
</tr>
<tr>
<td>F 4/5</td>
<td>P1 Progress meetings</td>
<td>Project 1: Work on final design boards and appearance models. Schedule time with instructor to go over progress/issues.</td>
<td>In-class Sketchbook Review (5%)</td>
</tr>
<tr>
<td>F 11/12</td>
<td>P1 Final Review</td>
<td>Project 1: Final Review</td>
<td>Project 1:</td>
</tr>
<tr>
<td>F 18/19</td>
<td>Winter Break</td>
<td></td>
<td>Project 1: 3 - Final Design Boards</td>
</tr>
<tr>
<td>F 25/26</td>
<td>P2 progress meetings</td>
<td>Project 2: Discussion on IoT devices, UI/UX. Work on residence model in class. Schedule time with instructor to go over progress/issues. Guest experts will also be available for consult.</td>
<td>1 - Collage + Sketch Analysis (identify issues + opportunities)</td>
</tr>
<tr>
<td>M 4/5</td>
<td>P2 Progress meetings</td>
<td>Project 2: Work on deliverables/models. Schedule time with instructor to go over progress/issues. Guest experts will also be available for consult.</td>
<td>2 - Concept Sketches</td>
</tr>
<tr>
<td>M 11/12</td>
<td>P2 Final review</td>
<td>Project 2: Final Review</td>
<td>Project 2:</td>
</tr>
<tr>
<td>M 18/19</td>
<td>P3 Progress meetings</td>
<td>Project 3: Lecture on brand essentials. Project 3: Meet with teams to review initial research and concepts. Sketchbook explorations to be reviewed with each group.</td>
<td></td>
</tr>
<tr>
<td>M 25/26</td>
<td>P3 Progress presentations</td>
<td>Demo on clay modelling. Project 3: Informal group presentation on brand research and initial concept ideation.</td>
<td>Project 3: 1 - Brand/Mood Board 2 - Ideation</td>
</tr>
<tr>
<td>A 1/2</td>
<td>P3 Progress meetings</td>
<td>Project 3: Work on clay models, technical drawings and presentation. Schedule time with instructor to go over progress/issues.</td>
<td></td>
</tr>
<tr>
<td>A 8/9</td>
<td>P3 Final Review</td>
<td>Project 3: Final Review</td>
<td>Project 3:</td>
</tr>
<tr>
<td>A 27</td>
<td>Take Home</td>
<td></td>
<td>Portfolio</td>
</tr>
</tbody>
</table>

Course Projects/Assignments*

1. Project 1 Review
2. Project 2 Review
3. Project 3 Review
4. SID Sketchbook Deliverable
5. Portfolio

*Each project may have some requirements for uploading files to CULearn as part of the hand-in. These files are to be uploaded as per instructions on CULearn, by the assigned due date.

Course Completion Requirements
In order to complete the course, the overall grade of the course must be at least C-.

Course Evaluation Information
Project 1: 30%
Project 2: 20% (group 30%, individual 70%)
Project 3: 25% (group 40%, individual 60%)

Sketchbooks: 10% (iteration, experimentation, sketching skill, problem solving)
Portfolio 10% (designed & creative documentation of process on 3 projects)
Studio Assessment*: 5% (based on student work and participation in class)

Individual/Group Work
Courses may include various combinations of individual and group work. Students must demonstrate individual aptitude. It is important where collaborative work is undertaken that students be able to clearly demonstrate that individual contribution has been made. Where the evaluation for individual work is below a passing grade, that grade will be awarded for the course.

Review Attendance
Attendance at scheduled SID reviews is mandatory. These are equivalent to exams in IDES courses when indicated in the course outline. Failure to attend will result in a grade of F. If you are not able to attend a review, you are required to call the General Office (613-520-5672) and/or send an email to id@carleton.ca to leave a message in advance. A comprehensive medical certificate or other documentation to substantiate the absence must be submitted as soon as possible after the review. The documentation must state the date of illness onset, the expected date of recovery, and the extent to which the student is incapacitated. The student is also required to set up a meeting with the instructor as soon as he or she is well enough to discuss and schedule an alternative date.

Any student in the review should submit materials for presentation and present as scheduled. In
addition, a student who does not remain for the complete review session, who does not present as scheduled, or who arrives late for the review, without approval from the instructor, will receive a 10% grade reduction for that review.

Late Submission of Deliverables
Course deliverables for reviews and other due dates: All deliverables submitted late will accrue a 10% per day deduction from the determined grade, to a maximum of 3 days, from the original deadline time and date. Failure to submit within 3 days, without approval from the instructor, will result in a grade of F.

Participation and Professionalism
Active participation and professional conduct are particularly important in studio courses and will be evaluated. At the same time, when the student’s work is reviewed at the end of the course, an evaluation will be made based on one or more of the following: in class discussion; consultations with instructors; and work ethic. However, none of these evaluations will be used to raise an overall failing grade, to a passing one, based on the quality of the work.

Requests for Academic Accommodation
You may need special arrangements to meet your academic obligations during the term. For an accommodation request, the processes are as follows:

Pregnancy obligation
Please contact your instructor with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details, visit the Equity Services website: https://carleton.ca/equity/accommodation/

Religious obligation
Please contact your instructor with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details, visit the Equity Services website: https://carleton.ca/equity/accommodation/

Academic Accommodations for Students with Disabilities
If you have a documented disability requiring academic accommodations in this course, please contact the Paul Menton Centre for Students with Disabilities (PMC) at 613-520-6608 or pmc@carleton.ca for a formal evaluation or contact your PMC coordinator to send your instructor your Letter of Accommodation at the beginning of the term. You must also contact the PMC no later than two weeks before the first in-class scheduled test or exam requiring accommodation (if applicable). After requesting accommodation from PMC, meet with your instructor as soon as possible to ensure accommodation arrangements are made. carleton.ca PMC

Survivors of Sexual Violence
As a community, Carleton University is committed to maintaining a positive learning, working and living environment where sexual violence will not be tolerated, and is survivors are supported through academic accommodations as per Carleton's Sexual Violence Policy. For more information about the services available at the university and to obtain information about sexual violence and/or support, visit: carleton.ca/sexual-violence-support

Accommodation for Student Activities
Carleton University recognizes the substantial benefits, both to the individual student and for the university, that result from a student participating in activities beyond the classroom experience. Reasonable accommodation must be provided to students who compete or perform at the national or international level. Please contact your instructor with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. https://carleton.ca/senate/wp-content/uploads/Accommodation-for-Student-Activities-1.pdf

For more information on academic accommodation, please contact the departmental administrator or visit: students.carleton.ca/course-outline

Student Responsibility
The student is responsible for knowing the content of this course outline, the schedule of classes, assignments, and reviews; and material covered during any absence from scheduled classes.

Unless otherwise arranged, the class will meet during regularly scheduled studio hours. These meetings are mandatory; important issues and questions will be raised, and announcements might be made. Everyone is expected to be based in studio and to work during scheduled hours. The studio should be considered a professional design studio environment. Because of the special involvement of external professionals, scheduling changes for guest lectures, presentations, and reviews may occur at short notice; students should stay informed regularly.

Other Considerations

In industrial design, ideas and concepts come from a multitude of sources to be modified and utilized in the design and development process. The student should reference sources appropriately.

Changes to the Course Outline
The course outline may be subject to change in the event of extenuating circumstances.