

**COURSE OUTLINE IDES 2302B • PROJECTS IIB • WINTER(2023)**

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**Instructor:** **Scott Currie**

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Location: In-Person 448B

Office Hours: by appointment

**Teaching Assistant: tbd**

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Office Hours: by appointment

**Time and Location:** Synchronous (In-person). Jan 11, 2022 to Apr 05, 2022

Days: Wed: Time: 09:35 - 12:25 Building: Azrieli Pavilion Room: 448B

### **Course Description**

Introduction to the design principles associated with adapting products to an existing product 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. Includes: Experiential Learning Activity. Prerequisite(s): IDES 2300 or permission of the School of Industrial Design. Studio and lectures six hours a week.

### **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 model making knowledge and skills in medium to high fidelity materials using analog tools.
12. Demonstrate professional behaviour.
13. Design as part of a team.

### **Course Deliverables**

These are the deliverables for this course. Please see 'Appendix A Course Schedule' for more detailed information.

Project 1 (P1): Organizer	35%
Project 2 (P2): Product Revamp	20%
Project 3 (P3): Product Brand Extension	35%

## **Student Access to Quiz, Test and Exam Papers**

Examinations are for evaluation purposes only and will not be returned to the student.

## **Required Materials**

Materials required for the course are listed below. You may be asked by your instructor to refer to Brightspace for a more comprehensive list of required materials.

### ***General Materials:***

Utilize the materials and tools that you have been accumulating from previous studio courses. Over time, you will begin to discover what mediums work best for you. At this point, you will want to continue experimenting with different mediums to build your skills and find the right fit for your personal style.

Here is a list of materials that will support your progress in this course:

- Paper: pack of letter-size (8.5"x11") bright white InkJet, LaserJet or similar printer paper and/or a sketchbook of similar size and quality
- Pens: variety of ballpoint and/or nylon-tip pens, preferably black (e.g. BiC Cristal or Round STIC, medium point or 1.0mm)
- Markers: set of grayscale designer markers (No. 1 to 10) and several colored markers (e.g. red, blue, violet, green, yellow, orange, pink, brown), preferably multi-tip professional brands such as Shinhan, Alpha, Prismacolor, Zig, Touch or Copic)
- Tapes: large role of 25mm thick masking/drafting tape or similar and 2-3 rolls of 19mm invisible tape or similar (e.g. Scotch Magic Tape)
- Cutting Knives: precision cutting knife (e.g. X-Acto), a box cutter/utility knife (e.g. Olfa), and several replacement blades for each (pack of 50 recommended)
- Steel Rulers/Squares: 14" minimum length (preferably 24") steel ruler (cork-back recommended) and/or engineer's square
- Cutting Board: 12"x18" minimum self-healing cutting board
- Adhesives: good quality hot glue gun with glue sticks (small craft glue guns may not be sufficient)
- Sandpaper: pack(s) of wet/dry sandpaper (100 and 220 Grit at least) and a sanding block

- Safety Glasses: appropriately fitting glasses or goggles with side shields
- Dust Masks: pack of dust masks (pack of 20 recommended)
- Cardboard: variety of cardstock and corrugated paper/fiberboard (recommended to save scraps from packaging materials)
- Precision Screwdrivers: set of precision/jeweler's screwdrivers (at least Phillips and slotted/flathead drivers)

***Project Specific Materials:***

Other specific materials will be dependent upon each student's projects. You must be prepared to purchase or acquire the appropriate materials necessary for you to complete your own design activities throughout the term. Some standard materials may be provided by the School to support the project work.

***Computer Software:***

The software (provided by the School of Industrial Design) that must be installed on your personal computer includes:

- Miro - for virtual studio space progress sharing and class engagement
- Adobe Creative Cloud – specifically Illustrator and Photoshop
- SolidWorks

**Computer Requirements**

Please refer to the computer requirements on the School of Industrial Design Website. You may be asked by your instructor to refer to Brightspace for other information or requirements related to computer work.

<http://www.id.carleton.ca/undergraduate/about-the-bid-program/computer-requirements>

**Individual/Group Work**

Courses may include individual and group work. It is important in collaborative work that students clearly demonstrate their individual contribution.

## **Review/Presentation Attendance**

Attendance at scheduled SID Reviews/Presentations is mandatory. These are equivalent to exams when indicated in the course outline. Failure to attend the Review/Presentation without reasonable cause, will result in a grade of F. Students arriving late for the Review/Presentation or not remaining for the complete session without approval from the instructor, will be addressed on a case-by-case basis at the discretion of the instructor.

If you are not able to attend a Review/Presentation, foresee arriving late or need to leave before it is complete, please email your instructor in advance explaining the reason for the situation. It is important that you provide a reasonable rationale for your absence, late arrival or early departure. In the event of an illness or death in the family, you will be required to sign a form verifying your claim and this form is available through the SID administration office.

## **Late Submission of Lecture & Studio Deliverables**

Students who do not hand in deliverables on time will have their earned grade reduced by 10% per day up to a maximum of 3 days.

## **Participation and Professionalism**

Active participation and professional conduct (e.g. class discussion, consultations with instructors, work ethic, etc.) are important in lecture and studio courses and may be formally evaluated by a grade. Professionalism also includes Carleton's Policy on Academic Integrity described in more detail below with links to content which you are required to review.

## **Academic Integrity**

*Carleton's Policy on Academic Integrity* is available at: <https://carleton.ca/registrar/academic-integrity/> and covers the following topics:

*Plagiarism* (e.g. submitting work in whole or in part by someone else, failing to acknowledge sources through the use of proper citations when using another's work).

*Test and Exam Rules* (e.g. attempting to read another student's exam paper, speaking to another student even if the subject matter is irrelevant to the text, using material not authorized by the examiner).

*Other Violations* (e.g. improper access to confidential information, disruption in classroom activities, misrepresentation of facts for any academic purpose).

This policy governs the academic behavior of students. In industrial design, ideas and concepts come from a multitude of sources and may be modified and utilized in the design and development process. The student should reference such sources appropriately and it is strongly advised that you read Carleton's Policy on Academic Integrity prior to conducting any work at the University.

## Requests for Academic Accommodation

You may require special arrangements to meet your academic obligations during the term. For an accommodation request for any of the following topics below, refer to the link provided for more information: <https://students.carleton.ca/course-outline/>

- **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, please review the [Student Guide to Academic Accommodation \(PDF, 2.1 MB\)](#) For accommodation regarding a formally-scheduled final exam, you must complete the Pregnancy Accommodation Form ([click here](#)).
- **Religious/Spiritual 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, please review the [Student Guide to Academic Accommodation \(PDF, 2.1 MB\)](#)
- **Academic Accommodations for Students with Disabilities:** The Paul Menton Centre for Students with Disabilities (PMC) provides services to students with Learning Disabilities (LD), psychiatric/mental health disabilities, Attention Deficit Hyperactivity Disorder (ADHD), Autism Spectrum Disorders (ASD), chronic medical conditions, and impairments in mobility, hearing, and vision. 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](mailto: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. For more details, visit the [Paul Menton Centre website](#).

- **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 where 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 the [Equity and Inclusive Communities website](#).
- **Accommodations 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. For more details, see the [Senate Policy on Accommodation for Student Activities \(PDF, 25KB\)](#).
- **The Use of Self-Declaration Forms:** In place of a doctor's note or medical certificate, students may complete the [self-declaration form](#) available on the Registrar's Office website to request academic accommodation for missed course work including tests and assignments. Students are also encouraged to connect directly with their instructors to discuss required accommodations arising from the COVID-19 situation.

## Statement on Student Mental Health

As a university student, you may experience a range of mental health challenges that significantly impact your academic success and overall well-being. If you need help, please speak to someone. There are numerous resources available both on- and off-campus to support you. Here is a list that may be helpful:

**Emergency Resources (on and off campus):** <https://carleton.ca/health/emergencies-and-crisis/emergency-numbers/>

### Carleton Resources:

- Mental Health and well-being: <https://carleton.ca/wellness/>
- Health & Counselling Services: <https://carleton.ca/health/>
- Paul Menton Centre: <https://carleton.ca/pmc/>
- Academic Advising Centre (AAC): <https://carleton.ca/academicadvising/>
- Centre for Student Academic Support (CSAS): <https://carleton.ca/csas/>
- Equity & Inclusivity Communities: <https://carleton.ca/equity/>

### **Off-Campus Resources:**

- Distress Centre of Ottawa and Region: (613) 238-3311 or TEXT: 343-306-5550, <https://www.dcottawa.on.ca/>
- Mental Health Crisis Service: (613) 722-6914, 1-866-996-0991, <http://www.crisisline.ca/>
- Empower Me: 1-844-741-6389, <https://students.carleton.ca/services/empower-me-counselling-services/>
- Good2Talk: 1-866-925-5454, <https://good2talk.ca/>
- The Walk-In Counselling Clinic: <https://walkincounselling.com>

### **Statement on Pandemic Measures**

It is important to remember that COVID is still present in Ottawa. The situation can change at any time and the risks of new variants and outbreaks are very real. There are [several actions you can take](#) to lower your risk and the risk you pose to those around you including being vaccinated, wearing a mask, staying home when you're sick, washing your hands and maintaining proper respiratory and cough etiquette.

**Feeling sick?** Remaining vigilant and not attending work or school when sick or with symptoms is critically important. If you feel ill or exhibit COVID-19 symptoms do not come to class or campus. If you feel ill or exhibit symptoms while on campus or in class, please leave campus immediately. In all situations, you should follow Carleton's [symptom-reporting protocols](#).

**Masks:** Masks are no longer mandatory in university buildings and facilities. However, we continue to recommend masking when indoors, particularly if physical distancing cannot be maintained. We are aware that personal preferences regarding optional mask use will vary greatly, and we ask that we all show consideration and care for each other during this transition.

**Vaccines:** While proof of vaccination is no longer required to access campus or participate in in-person Carleton activities, it may become necessary for the University to bring back proof of vaccination requirements on short notice if the situation and public health advice changes. Students are strongly encouraged to get a full course of vaccination, including booster doses as soon as they are eligible and submit their booster dose information in [cuScreen](#) as soon as possible. Please note that Carleton cannot guarantee that it will be able to offer virtual or hybrid learning options for those who are unable to attend the campus.

All members of the Carleton community are required to follow requirements and guidelines regarding health and safety which may change from time to time. For the most recent information about Carleton's COVID-19 response and health and safety requirements please see the [University's COVID-19 website](#) and review the [Frequently Asked Questions \(FAQs\)](#). Should you have additional questions after reviewing, please contact [covidinfo@carleton.ca](mailto:covidinfo@carleton.ca).



## **Student Responsibility**

The student is responsible for knowing the content of this course outline; the schedule of classes, assignments, and/or Reviews; and the material that was covered when absent. The studio is a professional environment and students should be working during the scheduled hours.

Unless otherwise arranged, the class will meet during scheduled class hours. Please note that attendance is important since issues and questions may be raised in class, and announcements made, along with information disseminated through Brightspace. As external professionals are often involved in our work, scheduling changes for guest lectures, presentations, and Reviews may occur at short notice, requiring students to stay informed.

## **Zoom sessions if required**

You are expected to have your video on during web conferencing sessions to facilitate participation and studio collaboration. This is similar to being present and available in-class. Remember that while in class, your at-home computer is your classroom - stay engaged in class material throughout class time.

*Unauthorized student recording of classroom or other academic activities (including advising sessions or office hours) is prohibited. Unauthorized recording is unethical and may also be a violation of University policy. Students requesting the use of assistive technology as an accommodation should contact the Paul Menton Centre: <https://carleton.ca/pmc/>*

*Unauthorized use of classroom recordings – including distributing or posting them – is also prohibited. Under the University's Copyright Policy (<https://library.carleton.ca/copyright-carleton>), faculty own the copyright to instructional materials – including those resources created specifically for the purposes of instruction, such as lectures slides, lecture notes, and presentations. Students cannot copy, reproduce, display, or distribute these materials or otherwise circulate these materials without the instructor's written permission. Students who engage in unauthorized recording, unauthorized use of a recording, or unauthorized distribution of instructional materials will be referred to the appropriate University office for follow-up.*

## **Changes to the Course Outline**

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

**(EXTREMELY IMPORTANT:** follow instructor guidance wrt adjustments or situational responses as necessary)

**Appendix A - Course Schedule - Section A**

<b>Week / Date</b>	<b>Focus / Activities</b>	<b>Deliverables</b>
<b>Class 1</b> Jan. 11 <sup>th</sup>	<ul style="list-style-type: none"> <li>● Course Overview</li> <li>● Project 1 (P1): Contextual Analysis</li> </ul>	
<b>Class 2</b> Jan. 18 <sup>th</sup>	<ul style="list-style-type: none"> <li>● Project 1: Ideation, Concept Sketches &amp; Sketch Models</li> </ul>	
<b>Class 3</b> Jan. 25 <sup>th</sup>	<ul style="list-style-type: none"> <li>● Project 1: Concept Development to a Single Direction. Make prototypes.</li> </ul>	
<b>Class 4</b> Feb 1 <sup>st</sup>	<ul style="list-style-type: none"> <li>● Project 1: Final Design Development, Appearance Model &amp; Presentation Materials</li> </ul>	
<b>Class 5</b> Feb. 08 <sup>th</sup>	<ul style="list-style-type: none"> <li>● <b>Project 1: Final Review</b></li> <li>● Project 2 (P2): Product Analysis</li> </ul>	<ul style="list-style-type: none"> <li>● <b>Project 1 Final Design Presentation (+upload)</b></li> </ul>
<b>Class 6</b> Feb. 15 <sup>th</sup>	<ul style="list-style-type: none"> <li>● Project 2: Concept Development</li> </ul>	
Feb. 20 <sup>th</sup> -24 <sup>th</sup>	<i>WINTER BREAK</i>	
<b>Class 7</b> Feb. 29 <sup>th</sup>	<ul style="list-style-type: none"> <li>● Project 2: Final Design Development</li> </ul>	
<b>Class 8</b> Mar. 8 <sup>th</sup>	<ul style="list-style-type: none"> <li>● <b>Project 2: Final Review</b></li> <li>● Project 3 (P3): Brand Analysis</li> </ul>	<ul style="list-style-type: none"> <li>● <b>Project 2 Final Design Presentation (+upload)</b></li> </ul>
<b>Class 9</b> Mar. 15 <sup>th</sup>	<ul style="list-style-type: none"> <li>● Project 3: Concept Development</li> </ul>	
<b>Class 10</b> Mar. 22 <sup>nd</sup>	<ul style="list-style-type: none"> <li>● Project 3: Final Design Development</li> </ul>	
<b>Class 11</b> Mar. 29 <sup>th</sup>	<ul style="list-style-type: none"> <li>● Project 3: Final Design Development</li> </ul>	
<b>Class 12</b> Apr. 05 <sup>th</sup>	<ul style="list-style-type: none"> <li>● <b>Project 3: Final Review</b></li> <li>● Course Wrap-Up</li> </ul>	<ul style="list-style-type: none"> <li>● <b>Project 3 Final Design Presentation (+upload)</b></li> </ul>