

**COURSE OUTLINE IDES 1300B • PROJECTS IA • Fall (2023)**

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**Instructor: Steven Pong**

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Location: **2492 Mackenzie Building**

Office Hours: On Request

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Office Hours: TBD

**Course Time and Location:**

Course locations are no longer displayed on the public class schedule and are subject to change. For the latest information please refer to Carleton Central under Student Services – Registration – Student Timetable.

**Course Description**

An introduction to the skills and processes of industrial design including drawing and sketching as an aid to design, basics of line, shape, ideation, and visualization, product drawing, presentation techniques, basic model making, studio equipment and practices, introduction to the design process.

Includes: Experiential Learning Activity.

Prerequisite(s): IDES 1000 (may be taken concurrently).

Studio and lectures six hours a week.

**Learning Outcomes**

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

1. Demonstrate and apply the basic principles and tools of design.

2. Carry out basic visualization and ideation sketching techniques through the use of line drawing in context, shading, and shadow.
3. Employ the rules of perspective drawing.
4. Gain the ability to identify the fundamentals of colour theory and translate these principles into project-based assignments.
5. Perform layout techniques to recognize the basic principles of graphic language and presentation through graphic design software.
6. Explore the role of analog model-making in the design process.
7. Use and understand the rudimentary rules of structure and material properties through the use of sheet material hand modeling techniques.
8. To be aware and apply the principles of technical drawing through scale orthographic projection based on drawing standards.
9. Recognize then develop good communication skills through in-class visual and oral presentation.

### **Course Deliverables**

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

1. Four (4) Minor Assignments	30%
2. Participation in-class exercises (cumulative)	10%
3. Major Project 1	20%
4. Major Project 2	20%
5. Sketchbook ( <i>1 midterm progress check-in</i> )	15%
6. Professionalism	5%

### **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.

Paper:

- One pack of HP Bight White Ink Jet paper or similar - 11x17" (can split with another student)
- **Sketchbook / Notebooks** -not lined – spiral is best – hardcover is practical but not necessary – Paper should be smooth (fine tooth and paper should be as white as possible) ideal is 8.5"x11"

Drawing Media:

- One (1) White Conte and (1) Black conte
- Box of BIC Crystal Black Roller Ball Pens
- Cool Gray Designer Markers – for example Cool Gray #1, 3, 5
- Black Designer Marker – (Dual tipped or one (1) fine and one (1) broader)
- 1 box Colour pencils (a few mid tone colours + 1 white if you don't want to buy a box)

Technical Instruments:

- Roll of masking/drafting tape (25mm) – Blue Masking is Great. \*\*\* Good to have
- **1 Cork back steel ruler – Preferably 24"** (+ a small straight edge -handy but not required)
- Tape Measure metric/imperial 16ft/5m is enough
- **3 button/scroll mouse**

Cutting and Modeling Tools:

- **Small Toolbox - more and more tools will be added to the toolbox as the years go by.**
- **Segmented Knife – Olfa - replacement blades required, a pack of 50 is recommended**
- **X-acto blade and 5 refills – precision blade (scalpel)**

- **Cutting Mat – 30cm x 45cm min**
- Hot Glue Gun and Glue Sticks.... (low temp mini-glue guns are not recommended)
- Variety pack sandpaper
- Scissors\* optional

Safety Materials:

- **One set of Safety Goggles – if you wear glasses – need the ones that can go over - mandatory**

Modelmaking materials:

- Multiple Foam core sheets (30"x20") –Black for presentation boards, white for model-making

*Recommended not mandatory* (check availability as electronic versions may be available for purchase)

“Drawing Ideas: A Hand Drawn Approach for Better Design.”

## **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 that 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>

## **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.

## **Changes to the Course Outline**

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

## **Appendix A - Course Schedule – more detailed information on Brightspace**

**Week 1 – Sept 12 – Introduction - Course Outline – Studio Rules**

Come to class with these items: **Safety Glasses are mandatory for participation.**

- Cutting Matt, Steel Ruler, Segmented Knife
- Sketchbook, and note-taking supplies
- Laptop
- Safety glasses (Prescription glasses are not safety glasses)

**Week 2 – Sept 19 – Minor 1 Presentation**

**Week 3 – Sept 26 – Minor 1 Due / Major 1 Presentation**

**Week 4 – Oct 03 – Minor 2 Presentation**

**Week 5 – Oct 10 – Minor 2 Due**

**Week 6 – Oct 17 – Minor 3 Presentation**

**Reading Week Break - no class Oct 24**

**Week 7 – Oct 31 – Sketchbook Interim Submission / Major 2 Presentation and Formal Review**

**Week 8 – Nov 07 – Minor 3 Presentation**

**Week 9 – Nov 14 – Minor 3 Due / Minor 4 Presentation**

**Week 10 – Nov 21 – Major 2 – milestone check-in**

**Week 11 – Nov 28 – Minor 4 Due**

**Week 12 – Dec 05 – Major 2 – Final Review – LAST CLASS – Clean up**

**Dec 08 –Sketchbook Due before 5pm – Box outside of 434**

**Dec08-Dec09 – Walk Around Set Up**

**Dec 11 – To be Confirmed - Walk Around Faculty only – Friends and Family access after 1 pm**

**Dec 12 – To be Confirmed - Take home / clear out**