

IDES 2300B • PROJECTS IIA

Instructor: **Brett Hooper**

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Office Location: 3086 MC

Office Hours: Available upon request (please refer to office schedule on Brightspace)

Teaching Assistant: Heather Greer

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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

Principles of design sketching used in the industrial design process. Topics include: sketching as a tool for problem definition; idea exploration and form development; rendering techniques and the communication of design concepts; basic physical prototyping and modeling-making techniques.

Includes: Experiential Learning Activity.

Prerequisite(s): IDES 1001 and IDES 1301, 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. Describe theoretical foundations behind industrial design sketching conventions such as perspective, foreshortening, light and shade, orthographic projection, ground figure relationships, viewpoint and orientation, intentional ambiguity, material indication and design annotations.
2. Apply and continue to develop mastery in the above.
3. Apply ideation and critical thinking simultaneously within the design process in the form of competent sketching.
4. Explore formal issues regarding composition and proportion through explorative hand sketching and model making in low fidelity materials simultaneously as tools to facilitate iterative design process to develop multiple design alternatives.
5. Implement contextual information (e.g., people and environment) through hand sketching and digital images to discover and convey design direction.
6. Execute the importing of analog sketches into a digital format to further develop designs.
7. Understand professional terminology regarding sketch and drawing conventions.
8. Determine appropriate levels of sketching and drawing approaches based on the intended visual communication audience and stage of development.

Course Deliverables

These are the deliverables for this course. For more detailed information, please see the Course Schedule, **IDES 2300B PROJECTS IIA F25 – Brett Hooper - Course Schedule**, in Brightspace.

The final grade for the course will be based:

- | | |
|---------------------|-----|
| 1. Two Assignments | 30% |
| 2. Major Project I | 25% |
| 3. Major Project II | 25% |

4. Progress Document (Digital Portfolio)	10%
5. Studio Performance	10%
<u>Total</u>	<u>100%</u>

Student Access to Exam

No exam

Cost of Educational Materials

All materials required for the course and their costs are listed below. Please note some materials costs are dependent on the project and the materials chosen so a range listing minimum and maximum values will be given.

Students may have purchase some of these materials for previous studio courses. First day we will review drawing materials and prototype. A more in-depth description of materials and tools will be presented on Brightspace. The modeling portion of this class will demand additional items:

REQUIRED

Prototype tools

- Digital Caliper / Vernier
- Safety Glasses – Clear / no coloration in lenses
- Engineer Square – 4"
- Hand Rasp
- Plasticine
- Set of small pliers
- Small Saw
- Assorted Sandpaper.

Prototype Tools Costs – \$45.00 - \$60.00

Modeling material you should have from Previous studios:

- Hot Glue Gun & Glue sticks
- Olfa segmented Knife & replacement blades
- X-Acto knife No. 11 & replacement blades
- 12 + inch Cork-back metal rule
- Masking tape

REQUIRED (you may have these materials in your possession from previous studios)

Drawing materials

- Ream of Bright-white inkjet paper 8.5" x 11"
- Roll of tracing paper – 12" wide
- Fineliner Pens - Black x 2
- Verithin Prismacolor pencils – Indigo blue or Black x 6
- Premier White Prismacolor Pencil x 2
- Pack of White Tabloid (11 x 17) paper
- Three cool grey multi tip markers – range from 2 to 9 (or a Set 1- 10)
- Two pastel color multi tip markers
- Bic Crystal ball point pens – black x 2
- 12 inch Cork-back metal ruler
- Clear Drafting Square – 4 to 6 inch

Drawing Material Costs – \$40.00 - \$65.00

Project Specific Costs

Additional project-specific material and printing will be required throughout the course.

Project Costs – \$50.00 - \$65.00

Total Approximate Costs – \$135.00 to \$190.00

“Students are not required to purchase textbooks or other learning materials”

Technology Requirements

Please refer to the technology requirements on the School of Industrial Design Website (<https://carleton.ca/id/student-info/it-support/technology-requirements/>). You may be asked by your instructor to refer to Brightspace for other information or requirements related to coursework.

Individual/Group Work

Courses may include individual and group work, and the majority of the grade must reflect individual work. This will support the assessment of individual performance, which may be difficult to determine in group projects. It is also important in collaborative work that students clearly demonstrate their individual contributions.

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 instructor's discretion.

If you are unable 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.

Late Submission of Assignments

Students who do not hand in assignments on time will have their earned grade reduced by **10%** per day at the instructor's discretion. If you foresee not meeting the submission due date and are requesting an extension, please provide your instructor with a minimum of 24 hours' notice.

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.

Health and Safety

Students must participate in training to access all the SID Labs and Maker Space. Apart from this training, students are required to follow the health and safety standards of the School of Industrial Design as well as Carleton's health and safety standards. All materials related to SID health and safety are available here [Health and Safety](#) and it is expected that students review and understand these materials and apply these standards throughout their studies.

Use of Studio Spaces

Access to studio space to attend courses and complete assignments is an important part of student success. Students are welcome and encouraged to use available studio spaces to work during non-studio hours. Out of respect for your colleagues, instructors, and Carleton cleaning staff, ensure you leave the space in good condition. This includes cleaning your area and storing your items in your designated storage space whenever you are leaving the space. The school will not be responsible for items that are not stored properly.

Academic Integrity

Carleton's Policy on Academic Integrity is available at: <https://carleton.ca/registrar/academic-integrity/> and covers the following violations, but is not limited to:

- **Plagiarism**
 - Submitting work written 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**
 - *Attempting to read another student's exam paper*
 - *Speaking to another student (even if the subject matter is irrelevant to text)*
 - *Using material not authorized by the examiner*
- **Other Violations**
 - *Improper access to confidential information such as exams or test questions*
 - *Disruption of classroom activities or periods of instruction*
 - *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](#) before conducting any work at the University.

Use of Artificial Intelligence (AI) Technologies

Minimal AI Use – Basic Assistance Only

Students may use AI tools for basic word processing and formatting functions, including:

- Grammar and spell checking (e.g., Grammarly, Microsoft Word Editor)
- Basic formatting and design suggestions (e.g., Microsoft Word's formatting tools, PowerPoint Design editor)

Documenting AI Use It is not necessary to document the use of AI for the permitted purposes listed above. If you have questions about a specific use of AI that isn't listed above, please consult the instructor.

Limitations Students may not use AI for the following tasks:

- The restrictions for AI use will be presented with Major project description. Note AI use may alter between Major Projects and deliverables.

Why this policy adopted this policy? This policy ensures that student voices and ideas are prioritized and authentically represented, maintaining the integrity of the work produced by students while allowing basic support to enhance clarity, correctness, layout, and flow of ideas. The goal of adopting a limited use of AI is to help students develop foundational skills in writing and critical thinking by practicing substantive content creation without the support of AI.

As our understanding of the uses of AI and its relationship to student work and academic integrity continue to evolve, students are required to discuss their use of AI in any circumstance not described here with the course instructor to ensure it supports the learning goals for the course. Students can access resources related to citing Generative AI on the [MacOdrum Library website](#). Plus, additional AI resources are also available on Carleton's [Artificial Intelligence Hub](#).

Requests for Academic Accommodation

Carleton is committed to providing academic accessibility for all individuals. You may require special arrangements to meet your academic obligations during the term. The accommodation request processes, including information about the *Academic Consideration Policy for Students in Medical and Other Exenuating Circumstances*, are outlined on the Academic Accommodations website (students.carleton.ca/course-outline). The website covers the below topics.

Topics:

- Pregnancy Obligations
- Religious/Spiritual Obligation
- Academic Accommodations for Students with Disabilities
- Survivors of Sexual Violence
- Accommodation for Student Activities
- Academic Considerations for Medical and Other Extenuating Circumstances
- Scheduling and Examination Support

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, refer to this link - <https://wellness.carleton.ca/> and open the needed section.

Topics:

- *Counselling*
- *Resource Guide*
 - *Thriving on Campus*
 - *Everyday Stress*
 - *Mild Mental Health Concerns*
 - *Moderate Mental Health Concerns*
 - *Complex Mental Health Concerns*
- *Umbrella Project*

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.

Course Schedule

Please refer to Brightspace for a detailed Course Schedule: **IDES 2300B PROJECTS IIA F25 – Brett Hooper - Course Schedule**.