CARLETON UNIVERSITY
SCHOOL OF INDUSTRIAL DESIGN

COURSE OUTLINE IDES 4301A • MINOR PROJECTS • Fall (2024)

Instructor: **Bjarki Hallgrimsson**

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Location: **436 AP**

Office Hours: Choose an item.

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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

Advanced skills-based course that enhances student experience in novel, experimental processes and techniques in design. Workshop-style activities and short projects focus on increasing skill competence and versatility in a variety of fields. Emphasis on time management and the ability to work independently.

Includes: Experiential Learning Activity.
Prerequisite(s): IDES 3302 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. Draw from theory covered in previous courses to complement advanced training.

2. Develop specialized skills in selected design themes.

3. Experience problem solving using new methods in design, inspiration, and imagination through the exploration of novel approaches and techniques.

4. Complete work efficiently in a time-limited workshop approach to skill acquisition and implementation.

5. Generate concepts and prototypes quickly, paying attention to and rationalizing formal detailing.

6. Explore a variety of prototyping and manufacturing materials and processes.

7. Document their process work to enhance their portfolio and demonstrate their skills in specialized areas of design.

Course Deliverables

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

Concept Review : 10%

Prototype 1 Report: 15%

Prototype 2: 15%

Final Prototype 35%

Final Poster: 15%

In class exercises: 10%

Rubric's posted on Brightspace for Assignment Uploads

Student Access to Quiz, Test, and Exam Papers

Examinations will be formal reviews with graded rubrics

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.

Prototyping and modelmaking for product design , Hallgrimsson, Bjarki.2012 or 2nd Ed 2019

Bothe editions are available at the Carleton Library, including an electronic version.

DesignDirect - how to start your own micro brand, Roger Ball with Heidi Overhill, Kindle edition.

Technology Requirements

Please refer to the technology 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 coursework.

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

Please install Solidworks and or equivalent 3D Cad program. Prototyping materials should be bought on an as need basis for your project.

Individual/Group Work

Courses may include individual and group work. It is 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 30% per day up to a maximum of 3 days at the instructor's discretion. If you foresee not meeting the submission due date, please provide your instructor with 24-hour 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. To support access, specific studios have been designated to certain years and/or sections.

     1st Year Studio Section A – Studio A
     1st Year Studio Section B – Studio B
     2nd Year Studio Section A – Studio A
     2nd Year Studio Section B – Studio B
     3rd Year Studio Section A & B – Studio C
     4th Year Studio All Sections (Capstone and Minor) – Studio D
     MDes Studio – MDes Studio

Students are welcome and encouraged to use their designated 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. 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 or physically created as a prototype in whole or in part by someone else*
  - *Failing to acknowledge sources through the use of proper citations when using another's work, including referencing physical works and art.*
- *Test and Exam Rules*
  - *See rules for reviews above*
- *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

To effectively address the incorporation of AI technologies, specifically generative AI tools, into courses, we have instituted the following guidelines. Further information can be found here - https://carleton.ca/tls/teachingresources/generative-artificial-intelligence/recommendations-and-guidelines/. Another useful resource is the Library's guide on AI tools - https://library.carleton.ca/guides/subject/artificial-intelligence-ai-tools.

In order to create a balanced and transparent educational environment, ensuring both academic integrity and the responsible integration of AI technologies into the learning experience, I have created the following rules for the use of AI:

1. Any use of AI tools must be approved by the instructor, including how they will be used and why.

2. You must always acknowledge what AI tools you used and how you used them

3. AI tools are "tools', they are not meant to be used as a replacement for critical thinking and design decisions. Use your common sense and do feel free to have an open and transparent discussion with me as we explore such tools together. Also be aware of the risks and read the above university guidelines

4. There will be some specific in class exercises where we will use specific AI tools to accomplish in class exercises.

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 below topics, refer to this link - https://students.carleton.ca/course-outline/ and open the needed section.

Topics:

- *Pregnancy Obligations*

- *Religious/Spiritual Obligation*

- *Academic Accommodations for Students with Disabilities*

- *Survivors of Sexual Violence*

- *Accommodations 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. 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, or valuable information may be shared, all of which can greatly benefit the student's learning experience. As external professionals may be 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

Please refer to Brightspace for a detailed Course Schedule - **IDES 4301A MINOR PROJECTS F24 - Bjarki Hallgrimsson - Appendix A Course Schedule**