

COURSE OUTLINE IDES 4310A • CAPSTONE PROJECT • Fall-Winter (2022-23)

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Office Hours: During studio/lecture hours of by appointment

Course Time and Location:

Room: Azrieli Pavilion 432 A

Studio: Fall – Thursday 9:35 -12:25 / 1:35 – 4:25

Winter: Thursday / Friday – 9:35 -12:25 / 1:35 – 4:25

Please refer to Carleton Central under Student Services – Registration or Search Schedule:

https://central.carleton.ca/prod/bwysched.p_select_term?wsea_code=EXT

Course Description

Application of design principles in a comprehensive design project. Problem area chosen should be product oriented and of sufficient complexity. Normally undertaken in consultation with off-campus organizations and industry; supervised by faculty members.

Includes: Experiential Learning Activity.

Precludes additional credit for IDES 4300 (no longer offered).

Prerequisite(s): IDES 3302 or permission of the School of Industrial Design.

Studio and lectures six hours a week in Fall and twelve hours a week in Winter.

Learning Outcomes

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

1. Apply research methods to define a unique design problem.
2. Bridge their research to the development of an appropriate design proposal.
3. Evaluate their proposed design solution with relevant stakeholders reflective of practitioner behaviour.
4. Demonstrate a basic understanding and need for ethics to develop and evaluate appropriate designs.
5. Develop methods and materials to develop and assess design solutions.
6. Produce a range of appropriate professional deliverables at each phase as reflected in the fields of design.
7. Establish a good working relationship with external partners, which includes receiving and incorporating feedback from partner groups.

Course Deliverables

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

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A PHASE APPROACH

Comprehensive and complex projects are highly process-oriented and are normally developed through a series of steps, with each step culminating in a deliverable. Because of the interdisciplinary nature of the projects in this section, final scheduling will be developed thru discussion with project partners and stakeholders. During the fall semester, students will focus on preliminary research to outline the design problems and develop well thought-out concepts. Ongoing consultation/discussion will be conducted throughout the project with the partners from the Sprott School of Business, your instructor, and outside

stakeholders. In the winter semester, students further their investigation by immersing themselves into indigenous communities. By applying different design methods and methodologies students will evaluate their ideas and then expand on their development process to create viable product solutions.

FALL SEMESTER

The fall semester phases:

I) Background Research - Stakeholder/partner consultation

II) Design Concept Development & Feasibility (ongoing stakeholder/partner consultation)

Each stage will be evaluated conjunctionally during the fall semester and at the end of the semester.

WINTER SEMESTER

The winter semester consists of three phases:

III) Preliminary Design

IV) Definitive Design

V) Final Review

Phases will be an extension of the research and conceptual design development completed in the fall semester. The process conducted in this semester will be relevant to the range of projects being done by each student; the activities presented will be required to be completed by all students. It is essential that the students document all the work completed during this semester, as this information will be included in the final presentation and documentary /documentation of the work completed. The final work will be vital in the development of your portfolio.

Grading:

FALL - *Background Research*

Establishing a concrete background in the project study through

literature review, expert interview, emphatic testing etc.

and conceptual work 10%

Design Concept Development

Oral presentation with models graphics and documentary/documentation that illustrate the research conducted showing the feasibility of the design through multiple concepts

..... 25%

WINTER

Preliminary design

Idea testing, present potential design solution 15%

Definitive Design

Present final design intent in every detail 15%

Final Design

Models, Graphics, Technical Drawings Videos, Documentary/ Documentation etc. that objectively presents all the design activities that resulted in a final solution.

..... 30%

Class conduct

..... 5%

TOTAL 100%

Please see Appendix A Fall Course Schedule and Appendix B Winter Course Schedule

Student Access to Quiz, Test and Exam Papers

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

Required Materials

Students will not require any additional equipment or tools from what they have purchase for previous studios.

Additional materials used will be dependent on the theme and project selected. As this is a comprehensive project be prepared to purchase mediums and materials that are appropriate for your research and development.

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>

Software Requirements:

Software that should be installed on laptop:

Adobe Suite (Photoshop, Illustrator, InDesign)

SolidWorks and KeyShot (schools' versions)

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/>

- *Parental Leave*
- *Religious/Spiritual Obligation*
- *Academic Accommodations for Students with Disabilities*
- *Survivors of Sexual Violence*
- *Accommodations for Student Activities*

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.

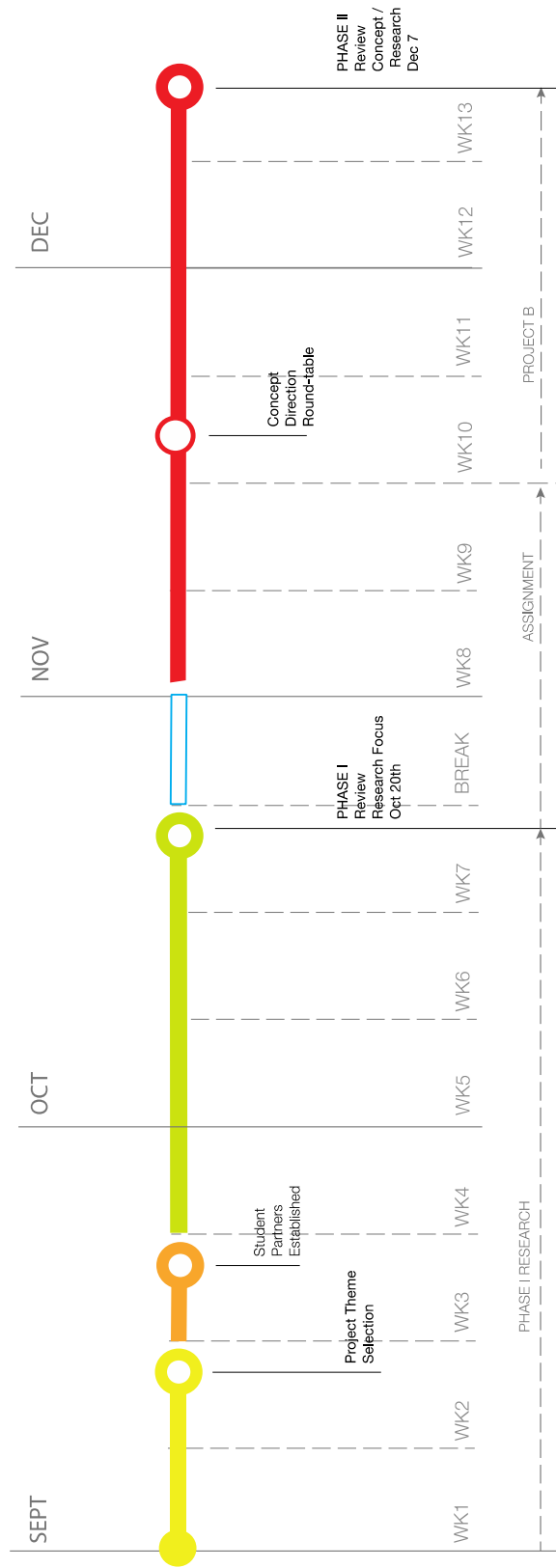
Unless otherwise arranged, the class will meet during scheduled class hours. Please note that attendance is important since issues and questions may be raised in class, and announcements made, along with information disseminated through Brightspace. As external professionals are often involved in our 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 – Fall Course Schedule

IDES4310 CAPSTONE PROJECTS SECTION A TIME-LINE FALL2022 • Thursday Studio



Appendix B – Winter Course Schedule

IDES4310 CAPSTONE PROJECTS SECTION A TIME-LINE
 Winter 2023 • Thursday & Friday Studio

