COURSE OUTLINE IDES 5103

INTERDISCIPLINARY DESIGN DEVELOPMENT STUDIO • WINTER (2020)

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Office Hours: during studio hours.

Time and Location: Please refer to Carleton Central under Student Services – Registration – Search Schedule: https://admissions.carleton.ca/faqs/where-can-i-find-the-class-schedule/

Course Description

Team-based studio projects draw on interdisciplinary design development methods in achieving a common design objective. Projects will be supervised by academic and industry advisors from a wide range of disciplines, and conducted in collaboration with professionals from external organizations. Open to students from other programs. Includes: Experiential Learning Activity. Prerequisite(s): IDES 5101 and IDES 5102 or permission of the School of Industrial Design.

Learning Outcomes

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

1. Understand what design methods, when and how may be applicable to various stages in the design development and improvement.
2. Employ appropriate design research methods and tools to synthesize and gain user insights.
3. Facilitate a team collaboration for an effective design process.
4. Enhance iterative design process to develop creative design solution in a team environment.
5. Apply design principles and theory to develop compelling design solutions for a given design project.
6. Apply generative research methodologies to conceptualize user needs and context in an interdisciplinary design project.
7. Prepare and present design research findings and insights for stakeholders involved in and contributed to the focus of research or project.
8. Adopt professional behaviour.

Course objectives and deliverables

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

This course will focus on gaining and synthetizing insights, and on developing design scenarios, strategic directions and proposals for implementation for a local organization. Throughout the course, students will explicitly explore design research methods and apply them to future design scenario and strategic design process, within a participatory design framework.

The project will be facilitated in collaboration with representatives from the organization. The project will involve the exploration of exemplary cases and relevant contexts via desk research, experts and field visits, employ observational methods and tools, local community workshop, interviews with different experts and representatives, participatory and generative design workshops including local community and experts in the addressed themes and field. All these phases will lead to the development of design future scenarios, strategic directions and solutions.

This course will utilize designerly research methods (such as those covered in IDES 5102) to gather relevant data, to analyze the data for gaining insights, to synthesize that for generating innovative and compelling ideas, and to assess local community’s interests, satisfaction, engagement in the proposals as well as to allow it to contribute.

Course format

Most classes will begin with reflections on the previous week, a short lecture or class discussion, followed by team-based studio time to complete the project—the majority of the class time will be devoted to the
latter. Active participation in the discussion is highly recommended. Studio time may be used to conduct field work, participate in workshop, and team discussion and collaboration. The course instructor will be a guide for the students throughout this design project, however, the expectation is that the students will propose their own process for developing a solution (e.g. adapting design methods, testing and using them, developing insights, etc.). **Attendance in all classes is required.**

### Grading

Students will be evaluated for:

- Contextual and field research: 20%
- BlueSky research: 10%
- Scenario building (15%), and strategic directions (visions and proposals) (10%): 25%
- Participatory workshops and generative idea sessions (n.1 10%, n.2 10%): 20%
- Final presentation (10%) and report (15%): 25%

Total: 100%

A detailed project description, including background, objectives, process and evaluation criteria, will be detailed in Appendix B which will be provided by the instructor in the first week of the term.

### Student Access to Quiz, Test, Exam Papers or Assignments

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

### Required Materials

Standard design studio tools to enable note taking, design research, concept generation, sketching, design mock-ups, cad design development and their presentation (slides/boards). You may be asked by your instructor or teaching assistant to refer to cuLearn for a more comprehensive list of required materials.

### Suggested Books and Articles


**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 receive a 10% grade reduction for that review.
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. Failure to submit within 3 days, without approval from the instructor, will result in a grade of F.

Deliverable should be hand in according to given instructions: failure to follow the instructions will result in a 10% grade reduction for that deliverable

**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/](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 cuLearn. 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. Every effort will be made to inform students in as timely a manner as possible.