

COURSE OUTLINE IDES 3601A • RESEARCH FOR DESIGN • Fall (2022)

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Course Time and Location: 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

Basic design research techniques to foster design exploration. Methods focus on understanding context and user experience to produce meaningful, actionable insights and design opportunities. Processes include qualitative and quantitative research, as well as creative and evaluative research with people. Teamwork and collaboration are explored. Includes: Experiential Learning Activity.

Prerequisite(s): IDES 2600.

Lectures or laboratory three hours a week.

Learning Outcomes

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

1. Select and apply appropriate research methods to support the design process.
2. Understand and demonstrate the differences between quantitative and qualitative research methods.

3. Collect data by developing and employing appropriate methods.
4. Analyze and synthesize data to formulate insights.
5. Select and employ methods to generate ideas from insights.
6. Develop different types of media, concepts, and/or prototypes to evaluate and refine ideas.
7. Cooperate as an effective and collaborative team.
8. Communicate the rationale for the selected approach and research outcomes by developing reports and presentations.
9. Value stakeholders' input at all design stages.
10. Adopt professional/responsible behaviour.

Course Deliverables

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

TCPS 2: CORE-2022 Certificate	10%
Methods Exploration Project	30%
Design Research Project	40%
Design Research Reflection	15%
Participation & 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.

Books:

The following books are not required, but will be extremely useful references to support your work throughout this course as well as your studio courses (some are available online through Ares library reserves, accessible from Brightspace):

Martin, B. & Hanington, B. (2019). *Universal methods of design (expanded and revised): 125 ways to research complex problems, develop innovative ideas, and design effective solutions*. Rockport Publishers.

Milton, A., & Rodgers, P. (2013). *Research methods for product design*. Laurence King Publishing.

Muratovski, G. (2022). *Research for designers: a guide to methods and practice* (Second edition). SAGE Publications.

Patnaik, D. (2017). *Needfinding: Design research and planning* (Fourth edition). Amazon.ca.

Project Specific Materials:

Other specific materials will be dependent upon each project and the research methods employed. You must be prepared to acquire or purchase the appropriate materials necessary for you to complete your own unique research activities throughout the term.

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 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/Presentations; and the material that was covered when absent. This classroom 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

Date	Topic / Activities	Deliverables
Week 1 Sep 12	Course Overview Lecture: Introduction to Design Research	
Week 2 Sep 19	Lecture: Conducting Design Research Introduction to Methods Exploration Project	
Week 3 Sep 26	Guest Speaker Series: Design Research in Practice – Part I (Industrial Design & UX Design)	TCPS 2: CORE-2022 Certificate
Week 4 Oct 3	Guest Speaker Series: Design Research in Practice – Part II (Industrial Design & Service/Strategic Design)	
Oct 10	Thanksgiving	
Week 5 Oct 17	Methods Presentations – Part I	Methods Exploration Project: Pamphlet
Oct 24	Fall Break	
Week 6 Oct 31	Methods Presentations – Part II	
Week 7 Nov 7	Introduction to Design Research Project Design Research Project Working Period	
Week 8 Nov 14	Design Research Project Working Period & Consultations	
Week 9 Nov 21	Design Research Project Working Period & Consultations	
Week 10 Nov 28	Design Research Project Working Period & Consultations	
Week 11 Dec 5	Design Research Project Working Period & Consultations	
Week 12 Dec 9	Design Research Project Presentations	Design Research Project: Presentation
Dec 22	Take-Home Exam	Design Research Reflection