

Instructor	Thomas Garvey / BID, MSc, PhD, WDO
Office	3484 Mackenzie Building 613-520-2600 Ext. 5674 / thomas.garvey@carleton.ca
Office Hours	By appointment
Course Time and Location	Wednesday 14:35-17:25 / 213 Tory Building

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.

Pre-requisite: IDES 5101 and IDES 5102 or permission of the School of Industrial Design.

Course Objectives

Industrial designers place the human in the center of the design development process. They acquire a deep understanding of human needs through empathy and apply a pragmatic human-centered problem-solving process to design products, systems, services, and experiences.

This course will acknowledge the theoretical discussions and skills attained in IDES5101 and will utilize some of the research methods learned in IDES5102 to gather relevant data, to analyze the data for gaining insights, to synthesize that for generating innovative and compelling ideas, and to assess suitable human-centered solutions for this course's project and design sub-assignments. The final outcome of the project will be presented at the School of Industrial Design annual exhibition, published as a digital course document, and entered where possible into design competitions: all to provide for the greatest exposure of the completed student work.

Learning Outcomes

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

1. Understand what design methods 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 team collaborations 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, and
7. Prepare and present design research findings and insights for stakeholders involved in and contributed to the focus of research or project.

Course Schedule

Attached as separate document

Course Format

The course consists of lectures, research exercises, with interim discussions and presentations to affect the overall direction of the final course outcomes. Student will interact with academic and industry collaborators as well as a range of design support and promotion organizations. Readings will be assigned in order to prepare for subsequent lectures or discussion.

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 fieldwork, participate in workshops, 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.

Main Topic

Natural Minimalism / Design and Creative Health

Sub-themes to be determined with students

Course Assignments

Introduced in detail at start of each phase

- Individual research assignments brought together in a range of written and visual formats to be combined into team documents
- Visual database and poster presentations of compelling information that might contribute to the intent of the WDO World Design Talks or Interdesign workshop format
- Final group document in print and digital form for publication and self-promotion

Readings

Series of readings introduced each week, as well as selected by students during progress reports

Course Evaluation Information

Phase 1 – Early conceptual development (team/individual)	25%
Phase 2 – Virtual/physical design development (team/individual)	25%
Phase 3 – Integration of solutions and presentation/publication formats (team)	50%

Individual/Group Work

Courses may include various combinations of individual and group work. Students must demonstrate individual aptitude, and achieve a passing grade for individual work, in order to pass the course. It is important where collaborative work is undertaken that students be able to clearly demonstrate that individual contribution has been made.

Review Attendance and Deliverables

Attendance at scheduled assignment reviews is mandatory. Failure to attend and present as scheduled will result in a grade of F for the review. If you are not able to attend a review, please notify the instructor and TA in advance. In the case of a medical condition, a comprehensive medical certificate or other documentation to substantiate the absence must be submitted as soon as possible after the review. Such documentation must state the date of illness onset, the expected date of recovery, and the extent to which the student is incapacitated. A grade of F can be modified only if a student completes the project requirements on a date agreed upon with the instructor. A student not remaining for the complete session, or arriving late for the review, without approval from the instructor, will receive a 10% grade reduction for that review.

Late Submission of Hand-in Deliverables

All hand-in deliverables submitted late will accrue a 10% per day deduction from the determined grade, to a maximum of 3 days, from the original deadline time and date. Failure to submit within 3 days, without prior approval from the instructor, will result in a grade of F.

Student Responsibility

The student is responsible for knowing the content of this course outline, the schedule of classes and assignments, and material covered during any absence from scheduled classes.

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.

Requests for Academic Accommodation

You may need special arrangements to meet your academic obligations during the term. For an accommodation request the processes are as follows:

Pregnancy Obligation

Please contact your instructor with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details, visit the Equity Services website: <https://carleton.ca/equity/accommodation/>

Religious Obligation

Please contact your instructor with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details, visit the Equity Services website: <https://carleton.ca/equity/accommodation/>

Academic Accommodations for Students with Disabilities

If you have a documented disability requiring academic accommodations in this course, please contact the Paul Menton Centre for Students with Disabilities (PMC) at 613-520-6608 or pmc@carleton.ca for a formal evaluation or contact your PMC coordinator to send your instructor your Letter of Accommodation at the beginning of the term. You must also contact the PMC no later than two weeks before the first in-class scheduled test or exam requiring accommodation (if applicable). After requesting accommodation from PMC, meet with your instructor as soon as possible to ensure accommodation arrangements are made. carleton.ca/pmc

Survivors of Sexual Violence

As a community, Carleton University is committed to maintaining a positive learning, working and living environment where sexual violence will not be tolerated, and survivors are supported through academic accommodations as per Carleton's Sexual Violence Policy. For more information about the services available at the university and to obtain information about sexual violence and/or support, visit: <https://carleton.ca/sexual-violence-support>

Accommodation for Student Activities

Carleton University recognizes the substantial benefits, both to the individual student and for the university, that result from a student participating in activities beyond the classroom experience. Reasonable accommodation must be provided to students who compete or perform at the national or international level. Please contact your instructor with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. <https://carleton.ca/senate/wp-content/uploads/Accommodation-for-Student-Activities-1.pdf>