IDES 5103W • INTERDISCIPLINARY DESIGN DEVELOPMENT STUDIO

Instructor:	**Juan Jimenez Garcia**
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	Office Location: 2496 ME
	Office Hours: Available upon request

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

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 team collaboration for an effective design process.
4. Enhance the iterative design process to develop creative design solutions 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 the research or project.
8. Adopt professional behaviour.

Course Deliverables

These are the deliverables for this course. For more detailed information, please see the Course Schedule, **IDES 5103W INTERDISCIPLINARY DESIGN DEVELOPMENT STUDIO W26 - Juan Jimenez Garcia - Course Schedule**, in Brightspace.

Phase 1: Discover + Define	***40%***
Presentation	*(20%)*
Preliminary Report	*(20%)*
Phase 2: Develop + Deliver	***40%***
Presentation	*(20%)*
Final Report	*(20%)*
Teamwork & Professionalism	***20%***
Team Profile	*(5%)*
Attendance & Conduct	*(5%)*
Peer Evaluations	*(10%)*

Student Access to Exam, Quizzes, and feedback on Academic Work

Carleton University is committed to providing students with appropriate and timely feedback on their work. Please see undergraduate regulations Article 5.3 and graduate regulations Article 23 for more information.

First assigned academic work will be evaluated and returned prior to the 10th teaching day of term.

Students have the right to have questions regarding their grades addressed and to view all material, including material that has not been returned such as final examinations. Please see undergraduate regulations Article 3.3.4 and graduate regulations Article 15 and Graduate Grade Appeal Process for more information.

This course has no exam.

Cost of Educational Materials

All materials required for the course and their costs are listed below. Please note some materials costs are dependent on the project and the materials chosen so a range listing minimum and maximum values will be given.

Books:

The following books are not required, but may be useful references to support your work throughout the semester (some versions/editions are available online through Ares library reserves, accessible from Brightspace, or on loan from the library):

Hallgrimsson, B. (2019). *Prototyping and modelmaking for product design* (Second edition). Laurence King Publishing.
Cost: ~$75.00

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.
Cost: ~$46.00

Milton, A., & Rodgers, P. (2013). *Research methods for product design.* Laurence King Publishing.
Cost: ~$60.00

Muratovski, G. (2022). *Research for designers: A guide to methods and practice* (Second edition). Sage Publications.
Cost: ~$83.00

Kumar, V. (2012). 101 design methods. John Wiley & Sons
Cost: ~$45.00

Project Specific Materials:

Each team will receive approximately $400 CAD in funding to support project-related expenses (see details in the Course Description document in Brightspace). This amount is intended to cover materials required for in-situ qualitative research methods, ideation, or co-creation activities with participants. Additional materials specific to each project may be required based on the proposed approach and scope.

If the cost of materials proposed by your team exceeds the allotted funding, you are expected to cover the difference independently. The out-of-pocket amount will vary depending on the nature of your project and methods selected and may range from $5 to $500.

Ethics Certification:
TCPS 2: CORE 2022 Certificate

Technology Requirements

Please refer to the technology requirements on the School of Industrial Design Website (https://carleton.ca/id/student-info/it-support/technology-requirements/). You may be asked by your instructor to refer to Brightspace for other information or requirements related to coursework.

Individual/Group Work

Courses may include individual and group work, and the majority of the grade must reflect individual work. This will support the assessment of individual performance, which may be difficult to determine in group projects. It is also 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 **10%** per day at the instructor's discretion. If you foresee not meeting the submission due date and are requesting an extension, please provide your instructor with a minimum of 24 hours' notice.

Regulation on Minimum Grade Requirements

A grade of B- or better must be obtained for each credit counted towards the master's degree. The School does not permit exceptions to this rule.

Students will be required to withdraw from the program if their grade point average falls below 7.0 (B-), or if they receive a grade of less than B- in any two courses that are eligible to be counted toward the master's degree.

For more information on General Regulations, please refer to:
https://calendar.carleton.ca/grad/gradregulations/

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. Students are welcome and encouraged to use available studio 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 whenever you are leaving the 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 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*
  - *Attempting to read another student's exam paper*
  - *Speaking to another student (even if the subject matter is irrelevant to text)*
  - *Using material not authorized by the examiner*
- *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.

In the School of Industrial Design, students are expected to have read and understand the University's definition of plagiarism and related offences in Carleton's policy on Academic Integrity at https://carleton.ca/registrar/academic-integrity/

The definition of plagiarism extends to copying designs, design ideas, research tools, etc. in whole or in part belonging to someone else, failing to acknowledge the sources through the use of proper citations when using another's work in any medium.

The school takes these misconduct offenses seriously and will take appropriate action as outlined in Carleton's Academic Integrity policy (see link above). The students are strongly advised to read Carleton's Policy on [Academic Integrity](#) before conducting any work at the University.

Use of Artificial Intelligence (AI) Technologies

Minimal AI Use – Basic Assistance Only

Students may use AI tools for basic word processing and formatting functions, including:

- Grammar and spell checking (e.g., Grammarly, Microsoft Word Editor, Copilot)
- Basic formatting and design suggestions (e.g., Microsoft Word's formatting tools, PowerPoint Design editor)

Documenting AI Use It is not necessary to document the use of AI for the permitted purposes listed above. If you have questions about a specific use of AI that isn't listed above, please consult the instructor.

Limitations Students may not use AI for the following tasks:

- Generating design concepts or solutions
- Producing visuals, sketches, renders, or prototypes
- Conducting or replacing design research
- Writing major sections of assignments or reports
- Replacing teamwork, collaboration, or professional judgement
- Automating tasks intended to build core learning outcomes
- Using AI to produce materials for stakeholder engagement
- Generating fabricated references or literature

Why this policy adopted this policy? This policy ensures that student voices and ideas are prioritized and authentically represented, maintaining the integrity of the work produced by students while allowing basic support to enhance clarity, correctness, layout, and flow of ideas. The goal of adopting a limited use of AI is to help students develop foundational skills in writing and critical thinking by practicing substantive content creation without the support of AI.

As our understanding of the uses of AI and its relationship to student work and academic integrity continue to evolve, students are required to discuss their use of AI in any circumstance not described here with the course instructor to ensure it supports the learning goals for the course. Students can access resources related to citing Generative AI on the [MacOdrum Library website](#). Plus, additional AI resources are also available on Carleton's [Artificial Intelligence Hub](#).

Requests for Academic Accommodation

Carleton is committed to providing academic accessibility for all individuals. You may require special arrangements to meet your academic obligations during the term. The accommodation request processes, including information about the *Academic Consideration Policy for Students in Medical and Other Extenuating Circumstances*, are outlined on the Academic Accommodations website ([students.carleton.ca/course-outline](#)). The website covers the below topics.

Topics:
- Pregnancy Obligations
- Religious/Spiritual Obligation
- Academic Accommodations for Students with Disabilities
- Survivors of Sexual Violence
- Accommodation 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.

Course Description and Schedule

Please refer to Brightspace for a detailed Course Description and Schedule - **IDES 5103W INTERDISCIPLINARY DESIGN DEVELOPMENT STUDIO W26 - Juan Jimenez Garcia**