

COURSE OUTLINE IDES 1000A • THEORY AND HISTORY OF DESIGN • Fall (2022)

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Office Hours: TBD.

Course Time and Location: September 9, 2022 to December 2, 2022, Fridays, 08:35 – 11:25, Minto Centre 5050.

For further information, 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

The theoretical and historical background of industrial design and design; disciplinary foundations and interdisciplinary connections; methodological aspects and economic and social contexts; contemporary scenarios in design; technological innovation and manufacturing processes.

Also listed as ARCH 2006.

Lectures three hours a week.

Learning Outcomes

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

1. Compare and contrast professional definitions of industrial design and identify professional organizations nationally and internationally

2. Identify historical events associated with the development of the industrial design profession from the 18th to 21st century.
3. Describe typical work responsibilities of an industrial designer.
4. Describe the steps associated with the design process, including: research, concepts, manufacturing and sales.
5. Apply creativity methods in a group setting including mind maps and brainstorming.
6. Name common plastic, wood and metal materials and be familiar with their primary properties.
7. Describe mass production processes in plastic, metal, fabric and wood.
8. Describe interdisciplinary connections with social sciences, engineering and business.
9. Describe the evolving nature of design by outlining contemporary issues in design.
10. Acquire theoretical skills, critical attitudes, and design thinking.
11. Understand better the challenges and advantages to teamwork and the need to develop interpersonal communication skills for teamwork.
12. Demonstrate improvement in presentation and graphic skills, and make group presentations of knowledge gained.

Course Deliverables

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

Course Projects/Assignments/Exams

There is one group project for the term. Students will be randomly pre-assigned into groups of 5-6 students. The group project includes group activities and is focused on applying design principles introduced in the class. The main deliverable for the group project is a written report and in-class presentation about how products have evolved over time as a result of design

Course Evaluation Information

Test (10%, 10%, 10%)

30% (online using Brightspace)

Group Project	35% (Division of Labour, Draft of Writing, List of Sources, 5%, Final Written Report and Online Presentation, 27%, Peer Evaluation, 3%)
Final Exam	35% (During Exam Period in December)

Readings

Online readings are assigned on Brightspace under ARES link to the Carleton Library. Note that the readings are listed in 'Appendix A Course Schedule'. They have been scanned and made available to you for free.

Assignments and Final Report

Small assignments are assigned during the term that can be worked on during classroom time. These must be submitted on time to be given a grade, particularly as they are completed as a group.

In Class Tests

Three term tests will be done in class through Brightspace. The student is not allowed to complete these outside the scheduled time provided except through special accommodation. There are no make-up tests offered except with a valid reason and adequate documentation. A student who misses a test or a large portion of the class for valid reason and with adequate documentation will have their final grade calculated by increasing the value of other tests, final exam and group project.

Participation and Professionalism

Active participation and professional conduct are particularly important in this class as there are readings and group activities as well as tests that require your attention to the class every week.

Student Access to Quizzes, Tests 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.

Some simple materials may be required as part of in class exercises and students will be notified what to have available. Zoom software may be used as part of the class to participate in synchronous discussions, and, if necessary, can be downloaded here – <https://zoom.us/>. The Brightspace [student support site](#) contains information and tutorials for students related to most functions in Brightspace.

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; 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 - Course Schedule

	First Half of Class (Theory and Profession)	Second Half of Class (History and Depth)
Week 1	Course Introduction	ARES: Movie "Objectified"
Sep. 9	Course Outline is reviewed, Group Assignment reviewed, students are assigned to groups (check Brightspace)	
Week 2	A: What is Industrial Design? / Materials of Manufacture	B: Human Made Artefacts, A Historical Perspective
Sep. 16	<p>ARES: Week 2 Readings (The Context of Industrial Design, Gilles, pg. 61-73)</p> <ul style="list-style-type: none"> Group project is distributed and groups are released 	ARES: Week 2 Readings (The Context of Industrial Design, Gilles pg. 7-22)
	Work on Group Project, Brainstorming, using Mindmaps. BigBlueButton. Google Meet, MS Teams, Zoom or Miro may be used outside of class.	
Week 3	A: Manufacturing Processes	B: The Start of The Industrial Revolution
Sep. 23	ARES: Week 3 Readings (The Context of Industrial Design, Gilles pg. 31-45)	Entrepreneurial Efforts in Britain 1750-1790 ARES: Week 3 Readings (History of Modern Design, Second Edition, Raizman pg.31-36)

	Test 0: This test is a practice test worth 0% to check functionality and participation, Group Project First Deliverable Due – Mind Map (23 September)	
Week 4 Sep. 30	A: Manufacturing Processes ARES: Week 4 Readings (The Context of Industrial Design, Gilles, pg. 46-59) Professor: Steve MacLeod	B: Industrial Revolution in Britain and North America Mechanization & Design 1830-1914 ARES: Week 4 Readings (Design In Context, Sparke, pg. 37-56)
Week 5 Oct. 07	A: Stages of Design 1-2: Research, Brief and Specification ARES: Week 5 Readings (Product Design, Rodgers and Milton, pg. 55-76)	B: Arts and Crafts and Art Nouveau, ARES: Week 5 Readings (A History of Design from the Victorian Era to the Present: A Survey of the Modern Style in Architecture, Interior Design, Industrial Design, Graphic Design, and Photography, Ferebee, pg. 63-92)
	Work on Group Project, Test 1: All Readings Week 2-4 + Lecture Material	
Week 6 Oct. 14	A: Stages of Design 3: Conceptual Design	B: The Bauhaus and De Stijl ARES: Week 6 Readings (Design: History, Theory, and Practice of Product Design, Bürdek, pg. 25-41 OPTIONAL: Design In Context Second Edition, Sparke, pg. 127-153)
	Work on Group Project	
Week 7	A: Stages of Design 4:	B: American Streamlining, Art Deco 1930s-1940s

Oct. 21	<p>Preliminary Design: Prototyping and Testing</p> <p>ARES: Week 7 Readings (Prototyping and Modelmaking for Product Design, Hallgrimsson, Chapter 2: How Prototypes Are Used, pg. 20-38)</p>	<p>ARES: Week 7 Readings (History of Modern Design Second Edition, Raizman, pg. 240-242, Art Deco: A Mode of Mobility, Windover, pg. 18-35)</p> <p>Professor: Michael Windover</p>
<p><i>Work on Group Project, meet with Kimia Tajmirriahi in person or using Zoom (concerns, progress review); Second Deliverable Due – Division of Labour, Draft of Writing, List of Sources, (21 October)</i></p>		
Week 8	<p>Fall Break</p>	
Oct. 28	<p><i>Week-long break from October 24 to 28, 2022. No classes will take place during this time</i></p>	
<p>Week 9</p> <p>Nov. 04</p>	<p>A: Stages of Design 5: Detailed Design: How Sketching and Drawing is used in Design</p> <p>Professor: Tim Haats</p>	<p>B: Modernism after WWII (1950s-1960s)</p> <p>ARES: Week 9 Readings (Design In Canada Since 1945: Fifty Years from Teakettles to Task Chairs First Edition, Gotlieb and Golden, pg. 36-43, History of Modern Design Second Edition, Raizman, pg. 260-291)</p>
<p><i>Work on Group Project</i></p> <p><i>Test 2: All Readings Week 5-7 + Lecture Material</i></p>		
<p>Week 10</p> <p>Nov. 11</p>	<p>A: American Design and Style Trends 1925-2015</p> <p>ARES: Week 10 Readings (The Presence of Products: A Question of Perspective, Gilles, pg. 5-8, American Design and Style Trends,</p>	<p>B: Postmodernism and Memphis (1980s)</p> <p>ARES: Week 10 Readings (Design In Canada Since 1945: Fifty Years from Teakettles to Task Chairs Second Edition, Gotlieb and Golden, pg. 44-55, History of Modern Design First Edition, Raizman pg. 353-360)</p>

	Inspirations from the Past, Kawanari, pg. 18-21)	
Group Project: Redesign Class Exercise		
Week 11 Nov. 18	A: Human Centered Design and Design Thinking ARES: Week 11 Readings (Design Thinking: Driving Transformation, Connor, pg. 1-18) Professor: Chantal Trudel	B: The Digital Age 1995-Present ARES: Week 11 Readings (Design: The Whole Story, Wilhide, pg. 475-493)
Week 12 Nov. 25	A: Marketing and Selling and The Emergence of Fields of Design: (2000+)	B: Sustainability, Accessibility, Health and Well Being, Social Innovation ARES: Week 12 Readings (Design for Extreme Poverty and Disability, Hallgrimsson, pg. 1-8, History of Modern Design First Edition, Raizman, pg. 363-374)
Test 3: All Readings Week 9-11 + Lecture Material, Course Review for Examination and Project Presentation Instructions		
Week 13 Dec. 02	Group Project: Final project presentations during-class and hand-in written report in Brightspace	