

COURSE OUTLINE IDES 2104A • COMPUTER APPLICATIONS A • Fall (2022)

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Location: **434 Azrieli Pavilion**

Office Hours: Wed 9:30 am – 11:00 am, Friday AM by appointment

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Office Hours: TBD

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

Provides industrial design students with working knowledge of design-related 2D computer applications, such as graphic manipulation, illustration software, and 2D Computer-Aided Design (CAD). Labs and projects are oriented towards building a foundation in software and group work skills for studio courses.

Includes: Experiential Learning Activity

Prerequisite(s): IDES 1301.

Lecture and tutorials three hours a week.

Learning Outcomes

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

1. Identify the different digital 2D file types and their optimal uses within industry-relevant software applications.

2. Apply the use of digital 2D computer software in the industrial design problem-solving process.
3. Execute detailed Technical Part Drawings using 2D CAD Software while demonstrating an understanding of orthographic views and how these translate into various forms.
4. Produce high-quality concept product illustrations using a combination of CAD with other vector-based graphics software such as Adobe Illustrator.
5. Apply file editing using Adobe Photoshop to process digital artwork to specific format, size, resolution, and color profiles.
6. Synthesize design requirements and constraints within a design team structure to generate cohesive graphical solutions.
7. Create assignment/project submissions that meet professional and technical standards.
8. Demonstrate professionalism as an industrial designer.

Course Deliverables

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

1. Five (5) Minor Assignments (5x10%)	50%
2. Labs – in class (10x3%)	30%
3. Final Project	15%
4. Participation, Attendance, and 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.

Type here to list the basic materials. More detailed information can be placed on 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.

Students may revise and resubmit their minor assignments via Brightspace for up to a maximum grade increase of 10% within 24 hours of marks released and feedback.

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

Week 1 – Sept 12

- Intro
- 2D Applied
- AutoCAD intro and Interface
- Lab 01

Week 2 – Sept 19

- Drawing Standards
- AutoCAD Basics continued
- Minor 1 – assigned – due Sept 25th at 11:59 pm
- Lab 02

Week 3 – Sept 26

- 2D Applications
- Drawing Types
- AutoCAD editing and more functions
- Model / Paper Space / Viewports
- Minor 2 – assigned - due Oct 16th at 11:59 pm
- Lab 03

Week 4 – Oct 03

- Soft Goods
- Flat Development
- Iterative Concepts
- AutoCAD continues
- Lab 04

Week 5 – Oct 10 – Thanksgiving Statutory Holiday – No Class

Minor 2 - due Oct 16th at 11:59 pm

Week 6 – Oct 17

- Red Letter Day – Receive – Mark-up - Return
- AutoCAD continues
- Minor 3a - Assigned
- Branding Group Project Presented
- Tasks defined / Group session

Reading Week –Oct 24th -28th

Week 7 – Oct 31

- Minor 3a due – pass/fail
- Minor 3b presented
- Scenario product usage
- Group Work Session

- Illustrator import/scaling and adjustment
- Plotting and Printing
- Lab 05

Week 8 – Nov 07

- Minor 3b due – Print-out – Pin-up at beginning of class
- Group eval checklist – Branding Cohesion
- Illustrator continued
- Lab 06

Week 9 – Nov 14

- Minor 4 – assigned – due Nov 20th at 11:59 pm
- Illustrator Applied
- Illustrator Advanced
- Lab 07

Week 10 – Nov 21

- Minor 4 –
- Illustrator Continued
- Photoshop Intro
- Major Project Presented
- Lab 08

Week 11 – Nov 28

- Minor 5 – Assigned
- Illustrator Continued
- Photoshop continued
- Lab 09

Week 12 – Dec 05

- Minor 5 Due
- Indesign – In class

- Work Session
- Lab 10

Make-up Day - Last Class Dec 09 – Monday Schedule

- Present Major Project - Digital Pin up Miro
- Wrap-up InDesign - Screen Shots journal
- Reflection and conclusion