CARLETON UNIVERSITY
School of Industrial Design

IDES 4301 2018

- **Instructor(s)** Anthony Dewar, Richard Kuchinsky, Sara Fortier
- **Office Hours** In Studio: contact TA outside of Studio
- **Teaching Assistant(s):** Spase Janevski
- **Office Hours** Please contact Spase at SpaseJanevski@cmail.carleton.ca
- **Course Time and Location** Monday 9:30-12:25, 13:35-16:25

**Course Description:**
Enables students to demonstrate through a series of short projects their versatility in product design or in complementary design fields such as communication, graphic design or design experiments. Emphasis is on time management and the ability to work independently on assigned projects.

**Prerequisite(s):** IDES 3302 or permission of the School of Industrial Design.

Core course/required course/elective course **CORE**

**Learning Outcomes:**
1. Draw from theory covered in previous courses to complement advanced training.
2. Develop specialized skills in selected design themes.
3. Experience problem solving using new methods in design, inspiration and imagination through the exploration of novel approaches and techniques.
4. Complete work efficiently in a time-limited workshop approach to skill acquisition and implementation.
5. Generate concepts and prototypes quickly, paying attention to and rationalizing formal detailing.
6. Explore a variety of prototyping and manufacturing materials and processes.
7. Budget time appropriately to be able to handle a varying workload.
8. Document process work to enhance their portfolio and demonstrate their skills in specialized areas of design.
9. Collaborate with team members and take responsibility for individual design contributions.
10. Demonstrate professional behaviour.

**Relationships between learning outcomes and projects/assignments:**
The emphasis of the Minor projects is on small short exercises or workshops, typically started and completed in class the same day. The purpose of this is twofold. Firstly it addresses learning outcome 1,2,3,4,5,6,7, 9 and also acknowledges that the students already have a Major studio that needs substantial attention outside of studio hours. These exercises are formative and will be evaluated based on the work done that day.
For each module of the course, there will also be a summative component such as a short project and a portfolio component as part of the final documentation that address learning outcomes 8 and 10.

**Grading:**
The course will have 3 modules, each one is taught by a different industry professional with specialized experience in that area. There will be a final and summative portfolio exercise as well. Each module and the Portfolio will have their own handouts or instructions prepared and handed out in advance.

*Module 1: Introduction to Electronics for Prototyping in Industrial Design (30%)*
Anthony Dewar (Sep10-Oct 1)

This module will cover the basics of electronic circuits and introduce students to the Arduino prototyping platform and simple programing as well as input/output circuits.

*Module 2: Introduction to Footwear Design (30%)*
Richard Kuchinsky (Oct 15-Nov5)

This module will provide students with exposure to the sketching and creative process skills typically used for athletic footwear design.

*Module 3: Introduction to UX Design for Industrial Design (30%)*
Sara Fortier (Nov12-Dec3)

This module will explore the UX design process where students will learn the end-to-end process of designing a mobile or web application from problem definition, to storyboards and wireframes, to branding and final visual design.

**Portfolio: (10%) Take home Exam**

This is meant to ensure that students document and reflect on their work.

**Required Materials:**
Students will be required to have an Arduino Board and breadboard for module 1. They will also be asked to bring in drawing materials for Module 2. Students will be required to run Adobe Creative Suite on their laptops.

**Individual/Group Work:**
Courses may include various combinations of individual and group work. Students must demonstrate individual aptitude. It is important where collaborative work is undertaken that students be able to clearly demonstrate that individual contribution has been made. Where the evaluation for individual work is below a passing grade, that grade will be awarded for the course.

**Review Attendance:**
Attendance at scheduled SID reviews is mandatory. These are equivalent to exams in IDES courses when indicated in the course outline. **Failure to attend will result in a grade of F.** If you are not able to attend a review, you are required to call the General Office (613-520-5672) and/or send an email to id@carleton.ca to **leave a message** in advance. A comprehensive medical certificate or other documentation to substantiate the absence must be submitted as soon as possible after the review. The documentation must state the date of illness onset, the expected date of recovery, and the extent to which the student is incapacitated. The student is also required to set up a meeting with the instructor as soon as he or she is well enough to discuss and schedule an alternative date.

Any student in the review should submit materials for presentation and present as scheduled. In addition, a student who does not remain for the complete review session, who does not present as scheduled, or who arrives late for the review, without approval from the instructor, will receive a 10% grade reduction for that review.

**Course Deliverables for reviews and other due dates:**
All summative work (in class exercises and one day workshop projects) must be completed in class and handed in at the end of the day as per the instructions or they will receive an F. Formative 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 approval from the instructor, will result in a grade of F.

**Student Access to submitted work:**
Exercises will be handed and will not be returned to the student.

**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: carleton.ca/equity/wp-content/uploads/Student-Guide-to-Academic-Accommodation.pdf

**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: carleton.ca/equity/wp-content/uploads/Student-Guide-to-Academic-Accommodation.pdf

**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](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 is 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: [carleton.ca/sexual-violence-support](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](https://carleton.ca/senate/wp-content/uploads/Accommodation-for-Student-Activities-1.pdf)

For more information on academic accommodation, please contact the departmental administrator or visit: [students.carleton.ca/course-outline](students.carleton.ca/course-outline)

**Plagiarism:**
In industrial design, ideas and concepts come from a multitude of sources to be modified and utilized in the design and development process. The student should reference sources appropriately.

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

Unless otherwise arranged, the class will meet during regularly scheduled studio hours. These meetings are mandatory; important issues and questions will be raised, and announcements might be made. Everyone is expected to be based in studio and to work during scheduled hours. The studio should be considered a professional design studio environment. Because of the special involvement of external professionals, scheduling changes for guest lectures, presentations, and reviews may occur at short notice; students should stay informed regularly.

**Other Considerations:** Since this course is being taught as 3 modules questions and concerns should be brought to the attention of the TA who will coordinate responses from instructors.

**Changes to the Course Outline:**
The course outline may be subject to change in the event of extenuating circumstances.