COMP 3008A: Human-Computer Interaction
School of Computer Science
Carleton University, Ottawa, Canada
Course Outline Fall 2023

Instructor:

Elizabeth Stobert
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Office Location: HP 5127
Office Hours: Available by appointment.
Primary method of contact: Email

Meetings:

Term: Fall 2023
Times: 8:35–9:55 AM Wednesdays and Fridays, September 6 – December 6
(No class on the week of October 25 for Fall break)
In-person meetings will be held *only* on Wednesdays.
Room: Please check in Carleton Central

Teaching Assistants:

A list of teaching assistants and their contact/office hours information will be posted once the course starts.

Course Calendar Description:

Fundamentals of the underlying theories, design principles, development and evaluation practices of human-computer interaction (HCI). Topics may include: theories of interaction, user interface frameworks, desktop, web, mobile, and immersive applications, usability inspection and testing methods, and qualitative and quantitative approaches to HCI research.

Prerequisites:

(COMP 2404 or SYSC 3010 or SYSC 3110) and (COMP 2406 or SYSC 4504).

Course Resources:

The recommended reference text for the course is:
Sharp, Helen, Jennifer Preece, and Yvonne Rogers. *Interaction Design: Beyond Human-Computer Interaction.* 5th ed. Newark: Wiley, 2019.

You are not required to buy this text. A copy is available in the library, and two copies will be made available via the professor.

All other course resources will be posted or linked via Brightspace. Use your Carleton ID and password to log into `http://brightspace.carleton.ca`.

Course Presentation:

The course will be delivered as a "flipped classroom". Video recordings of lecture topics will be posted each week on Friday for students to watch in advance of the Wednesday "workshop" classes. In-person meetings will be held *only* on Wednesdays.

Lecture content will be posted online on Brightspace, in the form of readings and lecture videos.

Attendance at Wednesday workshop classes is encouraged but not mandatory. These Wednesday workshops will help students to solidify their knowledge, and synthesize their understanding of the topics in the context of hands-on activities.

Note that this class is **not** being conducted online: There will be two in-person exams conducted during the semester.

Assessment:

Assessment will be based on work including: assignments, tests, and a final exam.

There will be two formative in-class tests (scheduled as below), each covering material up until the end of the previous week (i.e. Test 1 will cover material from weeks 1–3). These will be closed-book tests, with no support materials allowed.

A summative final exam will be scheduled during the formal examination period.

The final grade in the course will be calculated as follows:
Assignments: 40%
Term Tests: 30%
Final exam: 30%

Preliminary Course Schedule:

Week	Date	Topic	Assessment
1	September 6	Introduction	
	September 8	Design Concepts	
2	September 13	Interaction Design Process	
	September 15	and Requirements	
3	September 20	Conceptualizing Interaction	
	September 22		
4	September 27	Prototyping	
	September 29		
5	October 4	User Interface Patterns	Test 1
	October 6	Interaction Styles	
6	October 11	Social Computing	
	October 13		
7	October 18	Expert Evaluations	Assignment 1
	October 20		
8	November 1	User Studies	
	November 3		
9	November 8	Data Analysis	
	November 10		
10	November 15	Data Analysis (cont)	Test 2
	November 17		
11	November 22	Usable Security	
	November 24		
12	November 29	Information visualization	
	December 1		
13	December 6	Course Review	Assignment 2

Late Submission Policy:

Late assignment submissions will be accepted with a penalty of 10% per day late. Properly justified extension requests will be granted, and the students should contact the instructor as early as possible with the extension request.

No make-up tests will be offered: if a term test is missed, the percentage for that test will be added onto the final exam.

Departmental Resources:

Undergraduate Academic Advisors: The Undergraduate Advisors for the School of Computer Science are available in Room 5302HP; or by email at `scs.ug.advisor@cunet.carleton.ca`. The undergraduate advisors can assist with information about prerequisites and preclusions, course substitutions/equivalencies, understanding your academic audit and the remaining requirements for graduation. The undergraduate advisors will also refer students to appropriate resources

such as the Science Student Success Centre, Learning Support Services and Writing Tutorial Services.

SCS Computer Laboratory: Students taking a COMP course can access the SCS computer labs. The lab schedule and location can be found at: https://carleton.ca/scs/tech-support/computer-laboratories/. All SCS computer lab and technical support information can be found at: https://carleton.ca/scs/tech-support/. Technical support staff may be contacted in-person or virtually, see this page for details: https://carleton.ca/scs/tech-support/contact-it-support/.

Illness-related Policies:

Although there is no longer a formal policy regarding COVID-19 or other illness, I would like to acknowledge that COVID (and other viruses) continue to circulate in the community, and that the extent to which this affects or concerns everyone may not be equal. In our class, I ask that we extend our respect for other people's risk capacity to those who are the most risk-conscious. The classroom is a community, and our first priority is that everyone is able to learn in an environment that feels safe to them.

If you have any symptoms at all, please do not come to class. Alternative methods for joining class will be provided. If you are recovering, please wear a mask.

University Policies:

For information about Carleton's academic year, including registration and withdrawal dates, see Carleton's Academic Calendar: `https://calendar.carleton.ca/academicyear/`.

Student Academic Integrity Policy: Every student should be familiar with the Carleton University student academic integrity policy. A student found in violation of academic integrity standards may be awarded penalties which range from a reprimand to receiving a grade of F in the course or even being expelled from the program or University. Examples of punishable offences include: plagiarism and unauthorized co-operation or collaboration. Information on this policy may be found here: `https://carleton.ca/registrar/academic-integrity/`.

Plagiarism: As defined by Senate, "plagiarism is presenting, whether intentional or not, the ideas, expression of ideas or work of others as one's own". Such reported offences will be reviewed by the office of the Dean of Science. Standard penalty guidelines can be found here: `https://science.carleton.ca/students/academic-integrity/`.

Unauthorized Co-operation or Collaboration: Senate policy states that "to ensure fairness and equity in assessment of term work, students shall not co-operate or collaborate in the completion of an academic assignment, in whole or in part, when the instructor has indicated that the assignment is to be completed on an individual basis".

Use of LLMs: The assessment activities in this course were designed to be completed by real students enrolled in the course (whether on an individual or group basis).

Unless it is explicitly stated otherwise, the use of any will be considered academic misconduct. This includes, but is not limited to, chatbots (e.g., ChatGPT, Google Bard, Bing Chart), research assistants (e.g., Elicit), and image generators (e.g., Stable Diffusion, Dall-E), etc. An exception to the above rule is made for automated grammar and punctuation checking tools (such as Grammarly).

Academic Accommodation:

For more information on academic accommodation, please contact the departmental administrator or visit: `https://students.carleton.ca/course-outline`

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/womensstudies/resources-and-links/equity-services/`

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/focus/discrimination-harassment/religious-spiritual-observances/`

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. `https://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: `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. For more details, see the policy. `https://carleton.ca/senate/wp-content/uploads/Accommodation-for-Student-Activities-1.pdf`