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

Instructor:

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

Meetings:

Term: Winter 2023
Times: 1:05–2:25 PM Mondays and Wednesdays, January 9 – April 12
(No class on the week of February 20 for Winter break)
In-person meetings will be held only on Wednesdays.
Room: Please check on the public class schedule

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 textbook for the course will be:
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 Monday 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. A small grade will be given for each Wednesday workshop activity.

Note that this class is not being conducted online: all assessment will be conducted in person.

Assessment:

Assessment will be based on work including: group workshop activities, tests, and a final exam.

Group workshop activities will be conducted in class on Wednesdays, and submitted at the end of the class period.

There will be three 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:

**Workshop Activities:** 25%
**Tests:** 45%
**Final exam:** 30%

If a student’s grade on the final exam is higher than their total test grade, the final exam grade will be used for the test grade as well as the final exam grade.
Preliminary Course Schedule:

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<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Topic</th>
<th>Assessment</th>
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<tbody>
<tr>
<td>1</td>
<td>January 9</td>
<td>Introduction</td>
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<td></td>
<td>January 11</td>
<td>Design Concepts</td>
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<td>2</td>
<td>January 16</td>
<td>Expert Evaluations</td>
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<td>January 18</td>
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<td>3</td>
<td>January 23</td>
<td>User Studies</td>
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<td>January 25</td>
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<td>4</td>
<td>January 30</td>
<td>Data Analysis</td>
<td>Test 1</td>
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<td>February 1</td>
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<td>5</td>
<td>February 6</td>
<td>Interaction Styles</td>
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<td>February 8</td>
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<td>6</td>
<td>February 13</td>
<td>Interaction Design Process</td>
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<td>February 15</td>
<td>and Requirements</td>
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<td>7</td>
<td>February 27</td>
<td>Conceptualizing Interaction</td>
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<td>March 1</td>
<td>and Cognitive Processes</td>
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<td>8</td>
<td>March 6</td>
<td>Prototyping and</td>
<td>Test 2</td>
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<td>March 8</td>
<td>User Interface Patterns</td>
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<td>9</td>
<td>March 13</td>
<td>Cognitive Frameworks</td>
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<td>March 15</td>
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<td>10</td>
<td>March 20</td>
<td>Emotional and</td>
<td>Make-up test date</td>
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<td>March 22</td>
<td>Social Interaction</td>
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<td>11</td>
<td>March 27</td>
<td>Usable Security</td>
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<td>March 29</td>
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<td>12</td>
<td>April 3</td>
<td>Information Visualization</td>
<td>Test 3</td>
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<td>April 5</td>
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<td>13</td>
<td>April 10</td>
<td>Course Review</td>
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Late Submission Policy:

Submissions will only be accepted from students who are present at Wednesday workshops, and late submissions will not be accepted. The two lowest workshop grades will be dropped.

One make-up test date (March 20) will be offered during the semester for students who have had to miss either Test 1 or Test 2. No make-up date for Test 3 will be offered.

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/.

**COVID-19 Policies:**

The Carleton University webpage on COVID-19 policies and information can be found at https://carleton.ca/covid19/.

It is important to remember that COVID is still present in Ottawa. The situation can change at any time and the risks of new variants and outbreaks are very real. There are a number of actions you can take to lower your risk and the risk you pose to those around you including being vaccinated, wearing a mask, staying home when you’re sick, washing your hands and maintaining proper respiratory and cough etiquette.

**Feeling sick?** Remaining vigilant and not attending work or school when sick or with symptoms is critically important. If you feel ill or exhibit COVID-19 symptoms do not come to class or campus. If you feel ill or exhibit symptoms while on campus or in class, please leave campus immediately. In all situations, you must follow Carleton’s symptom reporting protocols.

**Masks:** Carleton has paused the COVID-19 Mask policy, but continues to strongly recommend masking when indoors, particularly if physical distancing cannot be maintained. It may become necessary to quickly reinstate the mask requirement if pandemic circumstances were to change.

**Vaccines:** While proof of vaccination is no longer required as of May 1 to attend campus or in-person activity, it may become necessary for the University to bring back proof of vaccination requirements on short notice if the situation and public health advice changes. Students are strongly encouraged to get a full course of vaccination, including booster doses as soon as they are eligible, and submit their booster dose information in cuScreen as soon as possible. Please note that Carleton cannot guarantee that it will be able to offer virtual or hybrid learning options for those who are unable to attend the campus.

All members of the Carleton community are required to follow requirements and guidelines regarding health and safety which may change from time to time. For the most recent information about Carleton’s COVID-19 website and review the Frequently Asked Questions (FAQs). Should you have additional questions after reviewing, please contact covidinfo@carleton.ca.

**Doctor’s Note or Medical Certificate:** For Winter 2023 term, in place of a doctor’s note or medical certificate, students are advised to complete the self-declaration
form available on the Registrar’s Office website to request academic accommodation for missed course work including exams and assignments. Students should also discuss with the course instructor the required accommodations arising from the COVID-19 situation.

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”.

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