

HCIN 5100F: Fundamentals of HCI Design and Evaluation
Masters in Human-Computer Interaction
Carleton University, Ottawa, Canada
Course Outline Fall 2024

Instructors:

Elizabeth Stobert

Email: elizabeth.stobert@carleton.ca

Office Location: HP 5127

Office Hours: Available by appointment.

Nadine Moacdieh

Email: nadine.moacdieh@carleton.ca

Office Location: HP 5135

Office Hours: Available by appointment.

Dr. Stobert will be on leave following the fall break and the second half of the class will be taught by Dr. Moacdieh. Please address all course-related communication to **HCIN5100_F24@cunet.carleton.ca**

Meetings:

Term: Fall 2024

Times: 8:35–11:25 AM Tuesdays, September 10 – December 3

(Class cancelled October 22 for Fall break)

Room: Please check Carleton Central

Course Objective:

Students completing this course should gain a deep understanding of the psychological research relating to cognition and design, as well as how to design and conduct user studies.

Topics:

Main topics will include:

- Human perception
- Cognitive psychology
- Personality psychology
- Developmental psychology
- Social psychology
- Distributed cognition
- Affective computing

- Human error
- User study design
- Usability evaluation methods
- Ethical considerations in HCI research

Assessment:

Assessment will be based on work including: in-class presentation and discussion of papers from the literature; a literature survey of a relevant area; and a user study project evaluating the design of a piece of software.

Paper presentation and discussion: 20%

Literature survey (due Oct 18): 35%

User study project (due Dec 3): 45%

The majority of class meetings will be discussion-based. We will cover 2–3 readings from the literature per week, and one student will be responsible for leading the discussion of each reading. Students are expected to read all papers, and take turns leading discussions. The grade for paper presentation and discussion will be based on student presentations and discussion of assigned readings.

Late Submission Policy:

Late assignments will be accepted with a deduction of one grade-level per day (e.g. an excellent assignment submitted two days late would receive a maximum grade of A-).

Online Resources:

There will be no set textbook. Instead, papers from the literature and online resources will be made available as appropriate.

All course papers and other resources will be available online through Brightspace. Use your Carleton ID and password to log into <http://brightspace.carleton.ca>.

University Policies:

Academic Accommodation Carleton is committed to providing academic accessibility for all individuals. Please review the academic accommodation available to students here: <https://students.carleton.ca/course-outline>

Academic Integrity

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 sanctioned with penalties which range from a reprimand to receiving a grade of F in the course, or even being suspended or expelled from the University. Examples of punishable offences include plagiarism and unauthorized collaboration. Any such reported offences will be reviewed by the office of Graduate Studies. More information on this policy may be found on the ODS Academic Integrity page:

<https://science.carleton.ca/students/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 Graduate Studies. Please note that content generated by an unauthorized A.I.-based tool *is* considered plagiarized material.

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 an individual working alone. 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 Chat), 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).