

CSC 428/2514 Human Computer Interaction, Fall 2023 Course Information Sheet

Course Instructor:

Prof. Joseph Jay Williams
williams@cs.toronto.edu

Classes:

Monday 6:00 PM - 9:00 PM

Delivery

In Person

Office Hours:

By appointment (email to make an appointment)

TAs:

- Nathan Laundry nathan.laundry@mail.utoronto.ca
- Amanda Leiva amanda.leiva@mail.utoronto.ca
- Harsh Kumar harsh@cs.toronto.edu

Course Overview and Objectives:

CSC428H/2514 is the department's second course in Human-Computer Interaction. It builds on the department's first course in HCI, CSC318, and what students learned there about interface design through task analysis, usability testing and iterative design. While the focus in 318 was largely on the design process, this second course will focus more on the underlying models of human-computer interaction, rigorous evaluation, statistical methods, and research frontiers and application.

Prerequisite: CSC318H1; STA237H1/STA247H1/ STA255H1/ STA257H1; CSC209H1/
proficiency C++ or Java

Recommended Preparation: A course in PSY; CSC209H1; (STA248H1/ STA250H1/
STA261H1)/(PSY201H1)

Distribution Requirements:

Science

Breadth Requirements:

The Physical and Mathematical Universes (5)

Program Area Section:

Computer Science

Course Webpage:CSC428: <https://q.utoronto.ca/courses/293844>CSC2514: <https://q.utoronto.ca/courses/293313>**Grading Scheme:**

Assignments

- MOU & Onboarding (2%)
- Class Design (15%)
- Assignment 1 (20%)
- Assignment 2 (30%)
- Before Reflection & Algorithm (15%)
- After Reflection & Algorithm (10%)
- Generative AI Reflections (8%)

Lecture Schedule

The schedule may be subject to change. Any changes will be announced.

	Lecture Topic
Week 1	Sept 11 : Welcome, Course Introduction
Week 2	Sept 18 : Designer Mindset + Adaptive Interventions
Week 3	Sept 25: HCI & Mental Wellbeing
Week 4	Oct 2: Interviews & Analysis
Week 5	Oct 9: NO CLASS Thanksgiving Day
Week 6	Oct 16: Process of HCI Research
Week 7	Oct 23: Randomized A/B experiments
Week 8	Oct 30: Analysis of A/B Experiments
November 6-10 Fall Reading Week	
Week 10	Nov 13: HCI & Machine learning/Artificial Intelligence
Week 11	Nov 20: Collective Intelligence, Crowdsourcing & Human Computation
Week 12	Nov 27: Recap of Course Topics

Text Books

There are no required textbooks for this course. Suggested texts and readings will be posted on the course website.

On Academic Integrity:

Academic integrity is essential to the pursuit of learning and scholarship in a university, and to ensuring that a degree from the University of Toronto is a strong signal of each student's individual academic achievement. As a result, the University treats cases of cheating and plagiarism very seriously. The University of Toronto's Code of Behaviour on Academic Matters (www.governingcouncil.utoronto.ca/policies/behaveac.htm) outlines the behaviors that constitute

academic dishonesty and the processes for addressing academic offenses. All assignments for this course are to be done individually.

Accessibility Statement

Students with diverse learning styles and needs are welcome in this course. In particular, if you have a disability or health consideration that may require accommodations, please feel free to approach me and/or the Accessibility Services Office as soon as possible. The Accessibility Services staff are available by appointment to assess specific needs, provide referrals and arrange appropriate accommodations. The sooner you let them and me know your needs, the quicker we can assist you in achieving your learning goals in this course. (From [Accessibility Office, U of](#)