



University
of Regina



Faculty of
Science

CS 428: Human Computer Communications

Territorial acknowledgement: The University of Regina is situated on the territories of the nêhiyawak, Anihšînāpēk, Dakota, Lakota, and Nakoda, and the homeland of the Métis/Michif Nation. The Regina campus is on Treaty 4 lands, and Saskatoon classes are on Treaty 6 lands.

Instructor: Daryl Hepting
Format: Hyflex (online/onsite flexible)
Lecture: Tuesdays and Thursdays, 14:30 – 15:45 UTC -0600
January 6, 2026 – April 9, 2026
Website: <https://urcourses.uregina.ca/course/view.php?id=39772>

Office Hours: Mondays and Wednesdays, 10:00 – 12:00 UTC -0600
Wednesdays, 13:00 – 15:00 UTC -0600
(in-person in the CS Department and remotely through Zoom)
Contact: using UR Courses e-mail

Teaching Assistant: Swe Zin Ei (Zin)
Office Hours: Tuesdays and Thursdays, 13:00 – 14:00
(in-person in the CS Department and remotely through Zoom)
Contact: using UR Courses e-mail

Course description:

This course stresses the importance of good interfaces and the relationship of user interface design to human-computer interaction. Other topics include: interface quality and methods of evaluation; interface design examples; dimensions of interface variability; dialogue genre; dialogue tools and techniques; user-centered design and task analysis; prototyping and the iterative design cycle; user interface implementation; prototyping tools and environments; I/O devices; basic computer graphics; color and sound. ***Prerequisite: CS 215 and CS 280***

Textbook:

- Yvonne Rogers, Helen Sharp, and Jennifer Preece, Interaction Design: Beyond Human-Computer Interaction, 6th Edition. John Wiley & Sons, Hoboken, NJ, 2023.
 - <https://www.id-book.com/>
 - <https://www.oreilly.com/library/view/interaction-design-6th/9781119901099/?ar%2F%3Femail=%5Eu>

Reference material:

- Don Norman, The Design of Everyday Things: Revised and Expanded. Basic Books, 2013
- R. Spielman, W. Jenkins, and M. Lovett, Psychology, 2nd edition, <https://openstax.org/details/books/psychology-2e>
- Interaction Design Foundation, The Encyclopedia of Human-Computer Interaction, 2nd Edition. <https://www.interaction-design.org/literature/book/the-encyclopedia-of-human-computer-interaction-2nd-ed>

Grading:

- Wiki Editing 5%
- Participation 5%
- Weekly Quizzes 10%
- Assignments 10%
- Midterm Exam 20%
- Final Exam 50%

Students must pass the Final Exam to pass this course.

- Research Credit 2% (up to 2%, bonus)

Lecture syllabus: all dates and topics are subject to change, as necessitated by illness, closures, or other unforeseen circumstances.

Week of	Topics	Notes
January 5	Welcome, Good and Poor Design (Chapter 1)	First meeting January 6
January 12	People-Centred Design (Chapter 1)	
January 19	Process of Interaction Design (Chapter 2)	
January 26	Conceptualizing Interaction (Chapter 3)	
February 2	Cognitive Frameworks (Chapter 4)	
February 9	Affective Computing (Chapter 6)	
February 16	Reading break – no classes	
February 23	Accessibility (Chapter 1)	
March 2	User Experience (Chapter 2)	
March 9	Interfaces and Standards (Chapter 7)	.
March 16	Social and Collaborative Factors (Chapter 5)	
March 23	Security and Privacy (Chapter 10)	
March 30	Design and Evaluation (Chapters 13, 14)	
April 6	Design and Evaluation, Review	

Exam modality: The Midterm Exam and Final Exam will be closed-book, in-person, written exams.

Late assignments/missed exam policy:

Late assignments will be penalized by a percentage of the assigned grade. If the midterm exam is missed for approved reasons, extra weight will be placed on the final exam. If you miss the final exam, you will receive an NP as your final grade.

Attendance policy: Attendance at course meetings is expected. Students are encouraged to record their attendance on UR Courses.

Experiential Assignments:

This course uses assignments for the purpose of giving students an opportunity to gain experience with topics and methods. The weight of each assignment is small (2%), as an incentive for devoting effort and submitting in a timely manner. All submissions will be checked to ensure that a reasonable attempt has been made; if so, the 2% will be awarded. After the due date has passed, a solution will be presented to allow students to self-assess their learning. A more robust assessment of student learning will be conducted on the midterm and final exams. These exams will include questions that directly reference the assignments; as such, the assignments should be treated as study mechanisms for the exams. Students may work alone on the assignments using only the textbook, course material, and their own skill and ability. Students may work together, helping each other to learn. Students may employ GenAI tools to assist with their understanding of the topics. How, and with whom, students have completed their assignments must be indicated plainly in the submission but it will have no bearing on grade. Whether a student works alone, with others, or with the help of GenAI tools, each student will be responsible for their own learning and understanding of the course topics. Whether this learning has been effective will be assessed individually in the exams.

Academic Integrity:

Academic integrity requires students be honest. Assignments and exams are to help students learn; grades show how fully this goal is attained. Thus, all work and grades should result from a student's own understanding and effort. Acts of academic misconduct violate academic integrity and are considered serious offences by the University. Examples include, but are not limited to, cheating on tests or exams, plagiarizing, copying from others, and submitting the work of others as your own. Instances of academic misconduct will be reported to the Associate Dean Academic for investigation. Students are encouraged to understand their obligations as a student, as well as their rights. Details are provided on the [uregina.ca](https://academic-integrity.uregina.ca/) website:

- <https://academic-integrity.uregina.ca/>
- <https://www.uregina.ca/registrar/academic-calendars-and-schedule/undergraduate-calendar.html>

Accommodations:

Students in this course who may have need for specialized accommodations, should contact the Centre for Student Accessibility (Riddell Centre 229, 306-585-4631), and must discuss their accommodation letter with their Instructor before any accommodations will be granted.