

HCIN 5300 W / ITEC 5204 W (0.5 credit)
Emerging Interaction Techniques
Winter 2022

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Office Hours: By appointment

Lecture: Wednesday (2:35pm – 5:25pm)
On Zoom

Course Description

Cover a range of advanced interaction styles and their associated technologies. Topics may include handheld and gestural interactions, ubiquitous computing, deformable user interfaces, physiological computing and tangible user interfaces.

Course Objectives/Learning Outcomes:

1. Understand novel interaction devices and techniques
2. Complete a research project from beginning-to-end
3. Learn how to write an academic paper

Grading

1. Reflections (4 * 2% each)	8 %
2. TCPS 2 Core certificate	2 %
2. Main Paper Presentation & Discussion	20 %
3. Presentation Playlist	20 %
4. Research Project (Group)	50 %
• Research Plan – 10 %	
• Evaluation Plan – 10 %	
• Presentation – 10 % (optional)	
• Final Paper – 20 % (30% if no presentation)	

A 5% per day late policy applies.

Group grades will be adjusted according to two peer evaluations (middle and end of term). Peer Evaluation is calculated by dividing the average PE for each person by the average PE of the group. It is then limited within the 0.75-1.25 range before being applied to group marks. For example:

Peer Evaluation Calculation Example: For member X in group 1

Average peer evaluation mark for member X = 32

Average peer evaluation for entire group = 30

Peer Evaluation Weight = 32/30

A1 mark = 80%

Member X Mark for A1 = 80 * 1.07 = 85.6

I reserve the right to adjust the ratio from the peer evaluation in exceptional circumstances.

Course Outline & Schedule

This is a general course outline. Order and number of topics covered in class are subject to change.

	Date	Lecture	Reflection	Presentation	Playlist	Project
1	Jan. 12	Introduction				
2	Jan. 19	Gratitude Initial Brainstorming				
3	Jan. 26	Design Life Cycle Writing for Academia 1	A	Paper choices		Project Idea(s)
4	Feb. 02	Prototyping Project refinement workshop				TCPS2 Core Certificate (individual)
5	Feb. 09	Literature review (librarians)	B	Paper – Topic 1		Research Plan
6	Feb. 16	Qualitative data gathering		Paper – Topic 2	Collection	
	Feb. 23	<i>(Reading Week)</i>				
7	Mar. 02	Writing for Academia 2		Paper – Topic 3		Evaluation Plan Peer evaluation rating
8	Mar. 09	Project work period	C	Paper – Topic 4		
9	Mar. 16	Qualitative Analysis		Paper – Topic 5		[in class] Intro/Related Work draft
10	Mar. 23	Peer Reviewing Workshop	D	Paper – Topic 6		
11	Mar. 30	Presenting Results		Paper – Topic 7	Feedback	
12	Apr. 06	Wrap up	E			[in class, optional] Project Presentation
	Apr. 27	<i>(No class)</i>	F			Research Paper Peer evaluation rating

All submissions are due at 10pm on Wednesdays unless otherwise indicated in brackets. Some are by email, some are on Brightspace. This information will be communicated to you in class.

The TCPS2 CORE certificate is **required to complete any research with participants**. As this is a requirement component of the project. While the certificate is an individual submission, your group will not have their evaluation plan approved until I receiving the ethics certificate from every group member.

Textbook/Reference Material

There is no required textbook for this course. Alternate sources and readings will be announced as necessary.

Active Participation

Active and constructive participation in discussions is expected (synchronously and asynchronously). This can be done by contributing to the class environment by asking good questions, making interesting remarks, providing feedback on colleague's projects, engaging in activities. Being prepared and being attentive are also important element of active participation, when combined with active contributions.

Course Delivery Information – Approach

This course will be offered online using a synchronous approach via Zoom. The synchronous session will be recorded and posted on the learning management system Brightspace. You are expected to join the course live and actively participate in discussions, polls, and activities.

However, I understand that things are more complicated these days due to working from home (being sick, having caretaking responsibilities, electronic/wifi issues, etc.). As such, you do not need to notify me if you are to miss a class. I expect you to listen to the course asynchronously in those cases and interact with the group/material as is appropriate.

You are *encouraged but not required* to turn on your camera during class time. It makes the experience a lot more motivating and enjoyable when I can teach to (some) people I can see, as opposed to black screens.

Course Delivery Information – Brightspace – <https://brightspace.carleton.ca/>

The course will take place in the Brightspace Learning Management System. Brightspace can be accessed from a web browser on most internet-enabled devices, including laptops, Chromebooks, tablets, and smartphones. The [Brightspace Pulse App](#) is also available for iPhone and Android devices. However, the app is best used to review grades and deadlines. The app is not the best way to review the course content. To explore course content, please use a web browser instead.

Brightspace Support is available via phone/email/chat 24 hours a day, 7 days a week, 365 days a year.
<https://carleton.ca/brightspace/students/>

Dispute Resolution

If you have any disagreements with your marks, or the way the mark was assigned, bring this to my attention within 1 week of grade availability. All remark requests must be submitted in writing identifying which parts of the submission you feel were not accurately graded. Simply expressing dissatisfaction with the grade will not result in a remark. Note that all remark requests will result in the entire assignment being remarked (not just the parts in question).

Email Policy

In order to ensure a timely response to your email queries, the subject of the email must contain the course number in the subject (e.g. HCIN 5300 or ITEC 5204) in addition to the original subject of the email. Otherwise your emails may inadvertently end up in the junk folder as SPAM.

Instructors must use a Carleton email address to communicate private information to students (grade information, accommodations, etc.). Please make sure that you contact university staff and faculty through your official Carleton email address. We have no way of confirming the identity of someone using non-Carleton email (i.e. gmail, yahoo, rogers, etc.), and cannot provide any academic information to non-Carleton addresses. At this time students will have one of two official email address: @connectmail.carleton.ca or @cmail.carleton.ca. Both addresses are considered official Carleton University email address.

Course Copyright

Student or professor materials created for this course (including presentations and posted notes, labs, case studies, assignments and exams) remain the intellectual property of the author(s). They are intended for personal use and may not be reproduced or redistributed without prior written consent of the author(s).

Group work

Carleton School of Information Technology encourages group assignments in the school for several reasons. They provide you with opportunities to develop and enhance interpersonal, communication, leadership, followership and other group skills. Group assignments are also good for learning integrative skills for putting together a complex task. Your professor may assign as many group tasks/assignments/projects as necessary in this course. Before embarking on a specific problem as a group, it is your responsibility to ensure that the problem is meant to be a group assignment and not an individual one.

Medical Certificate

Please note that in all occasions that call for a medical certificate you must use or furnish the information demanded in the standard university form. <http://www.carleton.ca/registrar/forms/>

Academic Integrity

The University Senate defines plagiarism in the regulations on instructional offenses as "to use and pass off as one's own idea or product work of another without expressly giving credit to another."

Borrowing someone else's answers, unauthorized possession of tests or answers to tests, or possession of material designed in answering exam questions, are also subject to university policy regarding instructional offences. Students who post their code online are making themselves a potential party to plagiarism and are subject to the consequences. For more information on Carleton University's Academic Integrity Policy, consult <https://carleton.ca/secretariat/wp-content/uploads/Academic-Integrity-Policy.pdf>

Academic Accommodation

You may need special arrangements to meet your academic obligations during the term. For an accommodation request, the processes are as follows:

Academic Accommodations for Students with Disabilities

The Paul Menton Centre for Students with Disabilities (PMC) provides services to students with Learning Disabilities (LD), psychiatric/mental health disabilities, Attention Deficit Hyperactivity Disorder (ADHD), Autism Spectrum Disorders (ASD), chronic medical conditions, and impairments in mobility, hearing, and vision. If you

have a disability requiring academic accommodations in this course, please contact PMC at 613-520-6608 or pmc@carleton.ca for a formal evaluation. If you are already registered with the PMC, contact your PMC coordinator to send me your **Letter of Accommodation** at the beginning of the term, and no later than two weeks before the first in-class scheduled test or exam requiring accommodation (*if applicable*). **Requests made within two weeks will be reviewed on a case-by-case basis.** After requesting accommodation from PMC, meet with me to ensure accommodation arrangements are made. Please consult the PMC website (www.carleton.ca/pmc) for the deadline to request accommodations for the formally-scheduled exam (*if applicable*).

Parental/Caretaking Accommodations

Based on my commitment to students who are parents or the primary caretaker for children, and given the current pandemic, I acknowledge and understand that some students may have kids with you in your current environment.

- Nursing or bottle-fed babies are welcome on video anytime, and you are welcome to feed your baby during class. If class lasts for more than 1.5 hours, you are welcome to take a break to pump.
- Older children are also welcome on video, I understand that illnesses and unforeseen disruptions in childcare happen.

You do not need to request prior permission for any of the points above. Please communicate with me if we need to discuss other accommodations related to parenting/caregiving.

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 carleton.ca/equity/wp-content/uploads/Student-Guide-to-Academic-Accommodation.pdf.

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 carleton.ca/equity/wp-content/uploads/Student-Guide-to-Academic-Accommodation.pdf

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 where 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, visit <https://carleton.ca/senate/wp-content/uploads/Accommodation-for-Student-Activities-1.pdf>

IMPORTANT DATES TO REMEMBER – Academic Year 2020-2021

WITHDRAWALS

The last day to withdraw from winter term courses or the winter portion of two-term courses with a full fee adjustment is **January 31, 2022**. Withdrawals after this date will create no financial change to winter term fees and will result in a permanent notation of WDN appearing on your official transcript.

The last day to withdraw from winter term and fall/winter courses without academic penalty is **April 12, 2022**.

OFFICIAL FINAL EXAMINATION PERIOD

Winter term: **April 14-28, 2022** – Examinations are normally held all seven days of the week.

For a complete listing of academic and financial dates and deadlines for the 2021/2022 academic year, please visit <https://carleton.ca/registrar/registration/dates/academic-dates/>.