

CSCI 4163 / CSCI-6610 --- Human Computer Interaction Course Syllabus

Instructor Information

Instructor:	Dr. Kirstie Hawkey	Office:	225
E-mail:	hawkey@cs.dal.ca	Office Hours:	M/F 10:30-12:30
Class :	T/Th 13:05-14:25	Class Room:	MCCAIN 2116
Lab:	Wed 10:30-11:55	Lab Room:	Teaching Lab 4
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Course Description

Human-computer interaction (HCI) deals with human-computer communication and how to facilitate it. Computers have become ubiquitous in daily life, and it is important to computing systems are designed for usability as well as utility. In this course, students will learn the foundations of HCI, including the process for user-centered development, the models that inform HCI design, the social issues influencing HCI design and use, and the evaluation of interfaces and systems with users.

In one group mini-project, students will get hands on experience in performing user-centered design as they gather requirements for a user interface through interviews, surveys, and/or observations. In a second mini-project, they will design and conduct a laboratory experiment evaluating two techniques (e.g., input techniques, authentication techniques) and perform analysis of the results.

In addition to the hands on mini-projects, students will conduct a class seminar where they will present seminal and recent papers on relevant HCI topics and lead a class activity related to the topic.

Important Dates:

Last day of to add/drop: Jan 18, 2013
Last day to drop without a "W": February 4, 2013
Test 1: February 21, 2013
Mini-project 1 final report: March 5, 2013
Test 2: April 4, 2013
Mini-project 2 final report: April 8, 2013

Evaluation

Component	Undergrad (4163)	Grad (6610)
Seminar of HCI Topic	20% (group)	15% (ind)
Seminar Topic research paper	--	10%
Group mini-project 1	20%	20%
Group mini-project 2	20%	20%
Participation/quizzes/questions from assigned readings/peer evaluation	20%	20%
2 tests (in class)	20% (2 x 10%)	15% (2 x 7.5%)

Late Policy

- Late assignments or project submissions will not be accepted – deliverables are due at the beginning of class on the due date.

Required Texts and Resources

There is no required text for the course. Copies of assigned readings will be provided if the online text is not available. The reading list and schedule will be posted on the course web page.

For those students who would like to have a text to refer to, the recommended text is: Lazar, J., Feng, J.H., and Hochheiser, H., "Research Methods in Human-Computer Interaction", ISBN 978-0-470-72337-1.

Course announcements will be posted to the course email list, which comprises the instructor's and students' CS email accounts. It is the student's responsibility to check their CS email account on a regular basis. If you do not know how to access your CS email account please contact the CS help desk or read the following FAQ located at: http://www.ug.cs.dal.ca/student-services/faq/technical_services/email/email.php

Prerequisites

CSCI-3160 or permission of instructor

Tentative List of Topics

- Overview
 - Motivation/History
 - Contexts for HCI
- User-centered development process
 - Early focus on users
 - Empirical evaluation
 - Iterative design
 - Participatory design
- Research ethics
 - Ethical considerations
 - Ethics submissions
 - Participant recruitment
 - Study design
- Understanding user's needs
 - Interviews/Focus Groups
 - Surveys
 - Diaries
- Observation
 - Observation
- User centered evaluation
 - Observation
 - Think-aloud
 - Controlled experiments
 - Evaluation measures
- Models that inform HCI design
 - Attention
 - Perception
 - Movement (Fitt's Law)
 - Cognition
- Social Issues
 - Computer Supported Cooperative Work
 - Human diversity
 - Designing for multiple devices and contexts

Academic Integrity¹

At Dalhousie University, we respect the values of academic integrity: honesty, trust, fairness, responsibility and respect. As a student, adherence to the values of academic integrity and related policies is a requirement of being part of the academic community at Dalhousie University.

What does academic integrity mean?

Academic integrity means being honest in the fulfillment of your academic responsibilities thus establishing mutual trust. Fairness is essential to the interactions of the academic community and is achieved through respect for the opinions and ideas of others. "Violations of intellectual honesty are offensive to the entire academic community, not just to the individual faculty member and students in whose class an offence occurs." (see Intellectual Honesty section of University Calendar)

How can you achieve academic integrity?

- Make sure you understand Dalhousie's policies on academic integrity.
- Give appropriate credit to the sources used in your assignment such as written or oral work, computer codes/programs, artistic or architectural works, scientific projects, performances, web page designs, graphical representations, diagrams, videos, and images.
- Use RefWorks to keep track of your research and edit and format bibliographies in the citation style required by the instructor <http://www.library.dal.ca/How/RefWorks>
- Do not download the work of another from the Internet and submit it as your own.
- Do not submit work that has been completed through collaboration or previously submitted for another assignment without permission from your instructor.
- Do not write an examination or test for someone else.
- Do not falsify data or lab results.

These examples should be considered only as a guide and not an exhaustive list.

What will happen if an allegation of an academic offence is made against you?

1. I am required to report a suspected offence. The full process is outlined in the Discipline flow chart, which can be found at:
2. <http://academicintegrity.dal.ca/Files/AcademicDisciplineProcess.pdf> and includes the following:
3. Each Faculty has an Academic Integrity Officer (AIO) who receives allegations from instructors.
4. The AIO decides whether to proceed with the allegation and you will be notified of the process.
5. If the case proceeds, you will receive an INC (incomplete) grade until the matter is resolved.
6. If you are found guilty of an academic offence, a penalty will be assigned ranging from a warning to a suspension or expulsion from the University and can include a notation on your transcript, failure of the assignment or failure of the course. All penalties are academic in nature.

Where can you turn for help?

- If you are ever unsure about ANYTHING, contact myself.
- The Academic Integrity website <http://academicintegrity.dal.ca> has links to policies, definitions, online tutorials, tips on citing and paraphrasing.
- The Writing Center provides assistance with proofreading, writing styles, citations.
- Dalhousie Libraries have workshops, tutorials, citation guides, Assignment Calculator, RefWorks, etc.
- The Dalhousie Student Advocacy Service assists students with academic appeals and student discipline procedures.
- The Senate Office provides links to a list of Academic Integrity Officers, discipline flow chart, and Senate Discipline Committee.

¹ Based on the sample statement provided at <http://academicintegrity.dal.ca>.