

IMD 3004 A (0.5 credit)
Human Computer Interaction & Design
Fall 2013

Instructor: Audrey Girouard
Office: AP 230 D
Office Hours: Thursday (2:30-3:30pm), Friday (12:30-1:30pm), or by appointment
Lecture: Tuesday/Thursday (1:05 – 2:25)
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TA: TBA

Course Description

Introduction to concepts centered on Human-Computer Interaction from hardware and software perspectives. Topics include design principles, usability principles and engineering, solving user-centered problems, device interaction, and graphical user interface design (2D and 3D interfaces).

Tentative Class Schedule, Projects and Assignments (to be modified as required)

<i>Week</i>	<i>Topics</i>	<i>Assignment due</i>
1	Introduction to HCI	
2	Design Concepts, History of HCI	
3	Usability, Design Process	Assignment 1
4	Task Analysis	
5	Mental Models & Prototyping	Assignment 2
6	Evaluation 1	
7	Interface Types	
8	Midterm (October 22) & The Human	Assignment 3
9	<i>Fall Break</i>	
10	Evaluation 2	
11	Evaluation 3 & Visual Design	Assignment 4
12	Visualization	
13	Next generation of user interfaces & Review	
14	Presentations (Assignment 6)	Assignment 5 & 6
	Final Exam	

Assignment are due on Thursdays at 11pm unless otherwise noted.

Grading

	%
Assignment 1 – Project Proposal	5
Assignment 2 – Requirement Analysis	10
Assignment 3 – Paper Prototype	10
Assignment 4 – Medium Fidelity Prototype	10
Assignment 5 – Evaluation	10
Assignment 6 – Presentation	5
Assignments (total)	50
Active Participation	5
Midterm exam	20
Final exam	25
Total	100

Group Assignments & Peer Evaluation:

There will be two Peer Evaluations, one after Assignment 3 and one after Assignment 6. The marks for each group assignments will be adjusted by Peer Evaluations that follows (i.e. PE1 will adjust A2 and A3, while PE2 will adjust A4, A5 and A6).

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 = $80 * 1.07 = 85.6$

Active Participation

Active participation will be determined by class attendance, participation in discussions, production of good ideas, willingness to answer questions and completion of in-class activities. If you're reluctant to speak up, please talk to me and we'll figure out a way for you to participate.

Special Rules:

- Students must achieve a minimum grade of 40% on the midterm and the final exam to pass the course.
- All assignments MUST be submitted in order to pass the course.

Assignments

- Assignments will be posted on the course webpage. They should be submitted before midnight on due date, through cuLearn.

- Only one student per team should submit the assignment.
- Assignments will receive a 25% penalty per day. After four days, a grade of zero will be assigned.
- Submission files must have the student or group name as the first part of filename, e.g. AudreyGirouard-*. * where *. * is the rest of the file name based on what it is.

Course Website on culearn.carleton.ca

Assignment marks and any announcements will be posted on cuLearn. It is your responsibility to check the web site frequently and make sure that your marks are correctly recorded. All marked assignments, tests, midterms and projects should be retained by students as proof of completion and grade.

Assignment submissions: Once you upload your assignment, make sure to click on the button “*Send for Marking*”. This will lock it for grading. This ensures us that you won’t be able to modify it.

If you forget to send it for marking, we will still have access to it for grading (it will be labeled “draft”). However, should you do anything to it (upload a new version, or send it for grading), it will override the original time stamp. So if your last draft was the correct version but you forgot to send for marking before the deadline, do NOT click on the send for marking button. Otherwise, even if you don’t change anything to your submission, it will be considered it late.

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. IMD 3004) 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 three official email address: @connectmail.carleton.ca, @cmail.carleton.ca, or @carleton.ca. These addresses are considered official Carleton University email address.

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, follower-ship 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.

Instructional Offenses

Copying of assignments is not allowed and students caught cheating will be dealt with in accordance to the rules and regulations of the University. Instances of instructional offenses will result in an official notice placed in your academic record of the violation. Subsequent handling of the violation will be handled by the University and may result in your required withdrawal from the course, the program, or expulsion from the university. You should always write up your own solutions and acknowledge your sources adequately. Students are encouraged to refer to section E in the undergraduate calendar for more information on instructional offenses.

Inability to Complete an Assignment or Write the Midterm due to Illness

Students who are not able to contribute to a group project, submit an individual assignment, or write the midterm exam due to a certified illness will have the weight of the assignment/exam added to their final examination, upon provision of the appropriate documentation at least two weeks before the final examination. Students who miss the midterm due to sudden illness must notify the Professor within 24 hours after the date of the exam with proper justification.

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://www1.carleton.ca/registrar/forms/>

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*). After requesting accommodation from PMC, meet with me to ensure accommodation arrangements are made. Please consult the PMC website for the deadline to request accommodations for the formally-scheduled exam (*if applicable*).

Religious observance

Students requesting academic accommodation on the basis of religious observance should make a formal, written request to their instructors for alternate dates and/or means of satisfying academic requirements. Such requests should be made during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist, but no later than two weeks before the compulsory academic event. Accommodation is to be worked out directly and on an individual basis between the student and the instructor(s) involved. Instructors will make accommodations in a way that avoids academic disadvantage to the student. Students or instructors who have questions or want to confirm accommodation eligibility of a religious event or practice may refer to the Equity Services website for a list of holy days and Carleton's

Academic Accommodation policies, or may contact an Equity Services Advisor in the Equity Services Department for assistance

Pregnancy

Pregnant students requiring academic accommodations are encouraged to contact an Equity Advisor in Equity Services to complete a letter of accommodation. The student must then make an appointment to discuss her needs with the instructor at least two weeks prior to the first academic event in which it is anticipated the accommodation will be required.

Plagiarism

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. For more information on Carleton University's Academic Integrity Policy, consult:

<http://www1.carleton.ca/studentaffairs/academic-integrity/>

IMPORTANT DATES TO REMEMBER – Fall Term 2013

September 2, 2013

- Statutory holiday, University closed.

September 3, 2013

- Fall term begins.

September 3-4, 2013

- Academic Orientation. All students are expected to be on campus. Class and laboratory preparations departmental introductions for students and other academic preparation activities will be held.

September 5, 2013

- Fall and fall/winter classes begin.

September 18, 2013

- Last day of registration for fall term and fall/winter courses.
- Last day to change courses or sections (including auditing) for fall/winter and fall term courses.

September 30, 2013

- Last day to withdraw from fall term and fall/winter courses with a full fee adjustment.

October 11, 2013

- December examination schedule (fall term final and fall/winter mid-terms) available online.

October 14, 2013

- Statutory holiday, University closed.

October 28-November 1, 2013

- Fall break, no classes.

November 8, 2013

- Last day to submit, to the Paul Menton Centre for Students with Disabilities, Formal Examination Accommodation Forms for December examinations.

December 9, 2013

- Fall term ends.
- Last day of fall-term classes.
- Last day for academic withdrawal from fall term courses
- Last day for handing in term work and the last day that can be specified by a course instructor as a due date for term work for fall term courses.

December 10, 2013

- No classes or examinations take place.

December 11-22, 2013

- Final examinations in fall term courses and mid-term examinations in fall/winter courses may be held. Examinations are normally held all seven days of the week.