COMP 7570 - Spring 2020

Course Outline (ROASS document)

Course Description

A graduate level seminar course on the topic of technology and older adults.

Instructor

Instructor	Office	Email
Dr. Celine Latulipe	E2-481 EITC	Celine.Latulipe@umanitoba.ca

Instructor office hours will be posted on the course website in UM Learn.

Website

UM Learn is used in this course. Make sure that you can access COMP 7570 in UM Learn.

Important Dates

A course schedule is available on the course website in UM Learn, which includes a schedule of assignments, and a tentative list of topics for each week. Please see the Important Dates section of the U of M General Calendar for information on holidays, exams, and voluntary withdrawal dates.

Textbook

There is no textbook for this course. Rather, a series of papers from HCI and gerontology-related journals and conferences will make up a set of readings. These will be posted on UM Learn.

Academic Honesty

Academic dishonesty is a very serious offence and will be dealt with in accordance with the University's discipline bylaw. Examples of academic dishonesty include submitting assignments which are not **entirely your own work** or providing your work to another student or students, and plagiarizing the writing of other researchers.

Course Outline

The course will investigate the relationship between older adults and the increasing pervasiveness of technology in society.

- The older adult population - who are they?
- TAM (Technology Acceptance Model)
- The 'Aging in Place' Movement and IoT technologies
- Interaction Techniques for older adults (touchscreen, mobile)
- Ethics: The older adult as research participant
- Networks: Online communities for older adults
- Quantified-Self: older adults and tracking apps
- Caregivers use of Technology
- Healthcare applications for dementia/mild cognitive impairment
- Technology creating barriers for daily life

Grade Breakdown

- Class participation (includes paper presentation & discussion lead): 10%
- Paper critiques (2): 20%
- Technology critique: 10%
- Group Project: 60%
    - Plan & Background Research: 15%
    - Needfinding Report: 10%
    - DIgital Interactive Prototypes: 15%
    - User study with final Report: 20%

Class Participation

Students are expected to attend and participate in discussion in classes. Laptops/tablets/phones may be used during the class period for class purposes only. Off-topic use is distracting to classmates and will not be permitted.

Assignments

There will be 3 individual assignments worth 10% each. Each assignment will carry equal weight. Two of these assignments involve a deep reading and critique of research papers chosen from the class reading list (or other papers, with instructor approval). One of these assignments involves choosing and using a technology designed for seniors over a period of two-three weeks, and then writing a critical review of that technology.

Group Project

The group project will last throughout the semester. You will form groups of 3-4 students. Each group will decide on a topic area, investigate current technologies in that area, and interview older adults to understand barriers to using that technology or barriers to daily life created by that technology. Each group will then work to develop interactive digital prototypes to address the problem. Then each group will conduct a user study of the interactive prototype with older adults, and write up results in a final report.

Determination of letter grades

The minimum percentage grade required for D, C, C+, B, B+, A, and A+ will be 50, 60, 65, 70, 75, 80, and 90%, respectively, **plus or minus 5%**.

Voluntary Withdrawal Deadline: March 18, 2020

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Student Resources and Student Accessibility Services

There is a wide variety of student support services at the University of Manitoba. See the "U of M Students Resources" document on the course website for details. Student Accessibility Services is available for students with disabilities, and accommodations recommended by that office will be provided to the extent possible. You may meet with your instructor to discuss this.