

Carleton University, Ottawa, Canada  
MA MAppSci MCS in Human-Computer Interaction  
Course Outline 2021

**Course number and title:**

HCIN 5200 (0.5 credit): Software and User Interface Development

**Instructor:**

Robert Biddle

Email Address: robert.biddle@carleton.ca

Office Location: HP 5169 (Not on Campus Fall 2021)

Office Phone: 520-2600 extension 6317 (Not answered Fall 2021)

Office Hours: By email arrangement for video meeting.

Primary method of contact: Email.

**Meetings:**

Term: Fall, 2021

Times: 8:35–11:25 PM Tuesday, September 14 – December 7;

But not Oct 26 (Fall Break)

Meetings will be held online via video-conferencing software. Details will be provided on [brightspace.carleton.ca](https://brightspace.carleton.ca)

There will also be online workshops on practical topics, to be scheduled at times convenient to everyone.

**Online Resources:**

All course papers and other resources will be available online via Brightspace:

<https://brightspace.carleton.ca>

The Brightspace course site also includes a forum for announcements and for discussion.

**Course Objective:**

Students completing this course should have a deep understanding of major UI interaction frameworks, their rationale, and their use.

**Instructor's Statement:**

This course is intended both as a review and an introduction to the essentials of user interaction technology and development, and a advanced consideration of future directions. The major styles will be examined and discussed, and exercises will be provided involving creation of sample software using open-source cross-platform tools. The practical context of UI development will also be examined, including software architecture and software development process, especially Agile development.

**Topics:**

Main topics will include major areas such as: UI Styles; Xerox Star legacy; Hypertext, World Wide Web; Mobile and Immersive UI Design; Post-GUI Interaction (e.g. multi-touch or sensor-based); Software System Architecture; Software Development Processes.

**Assessment:**

Assessment will be based on work such as: presentation and discussion of papers from the literature; practical work exploring UI software; and a literature review or software project addressing a specific topic.

Paper presentation, discussion, and workshop participation: 20%

Project 1: UI design exploration project: 35%

Project 2: Literature review or software project: 45%

Paper presentation and discussion mark will be based on student presentations and discussion of assigned readings from the literature. Students are expected to read all papers, and take turns leading discussions.

There will be no formal examination for this course.

**Textbooks:**

There will be no set textbook. Instead, papers from the literature and online resources will be made available as appropriate.

## University Policies

**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 Equity Services.

**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 Equity Services.

**Academic Accommodations for Students with Disabilities:** If you have a documented disability requiring academic accommodations in this course, please contact the Paul Menton Centre for Students with Disabilities (PMC) at 613-520-6608 or [pmc@carleton.ca](mailto:pmc@carleton.ca) for a formal evaluation or contact your PMC coordinator to send your instructor your Letter of Accommodation at the beginning of the term. You must also contact the PMC 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 your instructor as soon as possible to ensure accommodation arrangements are made. For more details, visit the Paul Menton Centre website.

**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 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: [carleton.ca/sexual-violence-support](http://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, see the policy.

**Student Academic Integrity Policy:** Every student should be familiar with the Carleton University student academic integrity policy. A student found in violation of academic integrity standards may be awarded penalties which range from a reprimand to receiving a grade of F in the course or even being expelled from the program or University. Examples of punishable offences include: plagiarism and unauthorized co-operation or collaboration. Information on this policy may be found here.

**Plagiarism:** As defined by Senate, "plagiarism is presenting, whether intentional or not, the ideas, expression of ideas or work of others as one's own". Such reported offences will be reviewed by the office of the Dean of Science.

**Unauthorized Co-operation or Collaboration:** Senate policy states that “to ensure fairness and equity in assessment of term work, students shall not co-operate or collaborate in the completion of an academic assignment, in whole or in part, when the instructor has indicated that the assignment is to be completed on an individual basis”. Please refer to the course outline statement or the instructor concerning this issue.

For more information on academic accommodation, please contact the departmental administrator or visit: <https://students.carleton.ca/course-outline>