

Syllabus / Course Outline

COMP 5110 – Security and Usability - Fall 2020

School of Computer Science, Carleton University

(Tentative outline, will be finalized the first week of class, last edited Tuesday, September 1, 2020)

Calendar Description

This course focuses on designing and evaluating security and privacy software with particular attention to human factors and how interaction design impacts security. Topics include current approaches to usable security, methodologies for empirical analysis, and design principles for usable security and privacy.

Instructor

Prof. Sonia Chiasson

chiasson@scs.carleton.ca <https://carleton.ca/scs/people/sonia-chiasson/>

Virtual Office hours: appointments scheduled through cuLearn

Class Schedule

Class times: Thursday 2:30 – 5:30pm *** to be discussed ***

Dates: September 10 to December 10, 2020

Fall break: October 26 - 30, 2020. No classes or office hours during Fall Break.

Delivery mode

Course website: <https://culearn.carleton.ca>

uOttawa students should request access to cuLearn from Carleton's Graduate Studies by completing the following form: [uOttawa Request to access CULearn](#)

The course will be delivered fully online using asynchronous and synchronous modes.

Class material will be available through:

1. [Synchronous] Live class discussion sessions offered through Zoom
2. [Asynchronous] Assigned readings listed on cuLearn
3. [Asynchronous] Discussion forums on cuLearn
4. [Asynchronous] Supplemental videos available on cuLearn, as needed

Assessment Plan

Your grade in this class will be based on the following items:

	Weight	Deadline
Participation	20	on-going
Assignment 1	20	11:59pm (Ottawa time) Friday October 9, 2020
Assignment 2	30	11:59pm (Ottawa time) Friday November 6, 2020
Assignment 3	30	11:59pm (Ottawa time) Friday December 11, 2020

If you are unsure of the expectations regarding academic integrity (e.g., how to use and cite references, how much discussion of your work with others is appropriate), **ASK** your instructor beforehand. Sharing assignments or posting them online (e.g., to sites like Chegg, CourseHero, OneClass, etc.) is considered academic misconduct. You are never permitted to post, share, or upload course materials without explicit permission from your instructor. Academic integrity offences are reported to the office of the Dean of Science. Penalties for such offences can be found on the ODS webpage: <https://science.carleton.ca/academic-integrity/>.

Penalties for violations of Carleton's Policy on Academic Integrity will normally be applied as follows:

- **First offence, first-year students (< 4.0 credits completed):** No credit for assessment(s) in question, or a final grade reduction of one full letter grade (e.g., A- becomes B-), whichever is a greater reduction
- **First offence (anyone else):** A grade of F in the course
- **Second offence (anyone):** A grade of F in the course and a one-term suspension from studies
- **Third offence:** Expulsion from the University

Note: While these are the standard penalties, more severe penalties may be applied when warranted.

Assignments will be submitted through cuLearn.

72-hour Grace Period: In total, you will have a 72-hour grace period for late submission of assignments. These hours can be divided in whichever way you want across the 3 assignments. For example, you could: (i) submit one assignment 72 hours late; (ii) submit each of the 3 assignments 24 hours late, or (iii) divide the hours among the assignments however you want. You do not need to contact me to use the grace period.

Penalty for Late Assignments: Assignments handed in late beyond your 72-hour grace period will be penalized by a deduction of 10 marks (out of a possible 100) per 24-hour period, or part thereof (e.g., anything from 1 minute to 24 hours past the deadline still counts as one period)

Content

A course schedule for the semester will be available on cuLearn.

Readings, videos, and/or other content will be provided on cuLearn weekly. Knowledge and a good understanding of the course content will be necessary to complete the assignments.

You will be expected to have completed the preparatory readings by Wednesday morning to engage in that week's discussions.

This is a research-based course. It will require careful reading and understanding of assigned research papers weekly. Engagement with, and in-depth discussion of, the research papers and course content is critical to understanding the material and doing well in the course.

Textbook: No textbook. Assigned readings will be from research papers available online.

Attendance

You may study the course material and participate in (asynchronous) class discussion on your own time. It is strongly recommended that you attend the synchronous (Zoom) sessions, but attendance is not mandatory. If you do not participate in the Zoom sessions, you will be expected to demonstrate sufficient class participation in other ways.

The synchronous (Zoom) sessions will be used to clarify concepts and discuss the week's research papers as a group. To encourage interaction and protect student privacy, the synchronous sessions will not be recorded.

We will also rely heavily on the asynchronous discussion forums on cuLearn to answer frequently asked questions, and to discuss class topics. You are encouraged to participate in the online discussions.

Collaboration Policy

Discussing assignments with other students is permitted and encouraged, but the actual work presented or submitted must be done individually. All suspected violations of academic integrity will be forwarded to the appropriate authorities.

Intellectual Property

My lectures and all course materials (including all PowerPoint presentations, course notes, handouts, and similar materials) are protected by copyright. I am the exclusive owner of copyright and intellectual property of all course materials. You may take notes and make copies of course materials for your own educational use. You may not allow others to reproduce or distribute lecture notes and course materials publicly for commercial purposes without my express written consent.

Graduate Academic Advisor

The School of Computer Science graduate advisor can assist you with information about prerequisites and preclusions, enquiries about course substitutions/equivalencies, understanding your academic audit and remaining requirements for graduation. The advisor will also refer students to appropriate resources on campus such as the Student Academic Success Centre (SASC), Writing Tutorial Centre, Registrar's Office, etc. The advisor can be reached at grad@scs.carleton.ca

Student Support Services

Carleton University offers programs and services that promote positive mental health and assist students with realizing their full potential. These student support services and resources are explained here: <https://carleton.ca/studentssupport/supporting-our-students/>

University Policies

For information about Carleton's academic year, including registration and withdrawal dates, see Carleton's Academic Calendar.

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 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

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.