

CS 453/698: Software and Systems Security

Module: Introduction

Lecture: course logistics

Meng Xu (*University of Waterloo*)

Spring 2025

Outline

1 Formalities

About us

- Name: [Meng Xu](#)
 - Assistant Professor at Cheriton School of Computer Science
 - Joined in Fall 2021.
 - Member of [CrySP](#) and [CPI](#).
 - Instructor for the first half of the course.
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- Name: [Adam Caulfield](#)
 - Post-doctoral researcher at Cheriton School of Computer Science
 - Joined in Winter 2025.
 - Member of [CrySP](#), supervised by Prof. [N. Asokan](#).
 - Instructor for the first half of the course.

Learning outcomes

On course website

Students completing this course should be able to identify common attack vectors against modern computing environments and deploy state-of-the-practice detection and defense practices.

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Modern computing environments include software, operating system, mobile, hardware, and emerging systems.

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- We cannot possibly cover every single topic in this area.
- We hope the security topics covered in this course align with your future study / work / research plans.
- We are open to new topic suggestions as well as feedback on course content and delivery.

Logistics

One section of course:

- CS453-001 and CS698-003
 - **Time:** 4pm - 5:20pm on Tuesdays and Thursdays
 - **Location:** MC 1056

Materials available online include lecture slides plus any supplement materials to facilitate the understanding of the topic

Communication channels:

- Public information will be posted on [course website](#)
- Questions and discussions should go on [Piazza](#)
- Personal matters can be discussed through your uwaterloo email

Topics to cover

Refer to [Course Outline](#).

Assessment

Component	Weight (CS 453)	Weight (CS 698)
Assignment 1	25%	20%
Assignment 2	25%	20%
Assignment 3	25%	20%
Assignment 4	25%	20%
Research write-up	(optional)	20%

Assessment

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Assignment 1	25%	20%
Assignment 2	25%	20%
Assignment 3	25%	20%
Assignment 4	25%	20%
Research write-up	(optional)	20%

- A research project is **optional** for students in CS 453, but if you choose to do it, you can use the grade to **replace the worst grade of your assignments**.
- Late submissions are generally not accepted, unless
 - with valid **VIF Form** or **Absense Declaration**
 - with early notification to the instructor **well before the due date** (at least a week) for any long-lasting problems.
- Re-appraisal can be requested with **a clear justification of claims**
 - send the request to the TA(s) **within one week** of grade release.

Office hours

Instructor office hours: Tuesdays 11am - noon.

- DC 2639 (for Meng Xu) or DC 3335 (for Adam Caulfield)
- If you prefer to meet online, please send us an email to schedule a time and a Zoom link.

Instructors are available to answer questions about module content, course policies, syllabus matters, and special situations.

TA office hours will be given to you in assignment details.

University policies

*In this course, you will be exposed to information about security problems and vulnerabilities with computing systems and networks. To be clear, you are **NOT** to use this or any other similar information to test the security of, break into, compromise, or otherwise attack, any system or network **without the express consent of the owner.***

Refer to [the list of relevant university policies](#) when in doubt.

Academic integrity

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- Read this excellent [explanation](#) of plagiarism online
- Ignorance is no excuse!
- Plagiarism applies to both text and code. You are free (and encouraged) to exchange ideas, but sharing code or text is a violation of academic integrity policies.

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Possible penalties:

- First offense: 0% for that assignment, -5% on final grade
- Second offense, more severe penalties, including suspension

Use of Generative AI (GenAI) tools

Permitted, but you need to properly cite it and follow other university guidelines.

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If you used any LLM-based tools to solve whole or part of the assignment, I am personally very interested in how you prompt it to give you the solution.

〈 End 〉