CS GRADUATE STUDENT ORIENTATION

Fall 2024 Part One





Directors



Raouf BoutabaDirector of the School



Khuzaima DaudjeeDirector of Grad Studies



Shane McIntoshAssoc. Director of Grad Studies

Staff



Denise Shantz Graduate Studies Manager



Tara Haghighi Graduate Coordinator, TA & Scholarships



Nadine WitmerZinger Graduate Coordinator, PhD Programs



Carly McLeod Graduate Coordinator, MMath Programs



Amy Todd Graduate Coordinator, Admissions & Scheduling



Ernest LamGraduate Office Co-op, General Inquiries & Admin Tasks

Other important contacts

Your supervisor

- Admitted you to the program
- Provides your graduate research studentship (GRS)
- Guides you in your research
- Helps you with course selection

Graduate advocates

 Help with matters of concern that are directly related to your graduate program that are inappropriate to discuss with your supervisor

Please reach out to your supervisor if you haven't already!



Today's agenda

- 1. Course enrolment
- 2. Understanding your funding
- 3. Key upcoming dates

COURSE ENROLMENT

SUPERVISOR RECOMMENDATIONS **COURSE REQUIREMENTS**

COMPREHENSIVE-I REQUIREMENTS

SUPERVISOR RECOMMENDATIONS

Before making a decision on your courseload, ensure you speak to your supervisor first!

COURSE REQUIREMENTS COMPREHENSIVE-I REQUIREMENTS

SUPERVISOR RECOMMENDATIONS

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COURSE REQUIREMENTS

The basic requirements for coursework in both MMath and PhD programs.

A function of **course numbers** and **course area/category.**

COMPREHENSIVE-I REQUIREMENTS

A guide to Waterloo's course numbering system

Course number	Level	Description
CS 100 to 400	Undergraduate	Not open to graduate students except as remedial or extra courses
CS 600	Graduate	Held with a 400-level undergraduate course. Same classroom, same lectures, but extra work for graduate students.
CS 700	Graduate	Standard core graduate subjects Typically fixed curriculum Lecture based Assignments/exams/projects
CS 800	Graduate	Research-oriented topic courses Reading/analysis of 20 to 40 research papers Projects May vary offering to offering May be able to count two offerings of the same course number – IF they have different topic titles



Each course also fits within a category and area

Category	Area		
Computing and	Software Engineering		
Technology	Programming Languages		
	Hardware and Software Systems		
Mathematics of	Algorithms and Complexity		
Computing	Scientific and Symbolic Computing		
	Computational Statistics		
	Quantum Information and Computation		
Applications	Artificial Intelligence		
	Databases		
	Graphics and User Interfaces		
	Bioinformatics		
	Health Informatics		



Non-CS courses

To meet course requirements, most of your courses must be in CS. To have a non-CS course count towards your degree, the following must be true:

- You have permission from the course instructor, host department, and recommendation of your supervisor;
- The course has CS content;
- The course is on the <u>list of approved non-CS courses</u> on the CS website;
 - If not on the approved non-CS course list, <u>prior</u> approval from the Graduate Director must be granted. Please email the Graduate Director the course outline, reference materials, grading basis, and supervisor recommendation.

Master's course requirements

Program	Total	600-level	800-level	Per Area	Non-CS courses (pre- approved)
Thesis	4	Maximum of 1	Minimum of 1	No more than 2	Maximum of 1
Research Paper	7	Maximum of 3	Minimum of 2	No more than 3	Maximum of 2

Generally speaking...

- Plan to complete two courses per term until course requirements are complete
- Remedials do not count towards your course requirements (unless stated in your offer) and must be completed within your first two terms

PhD course requirements

Program	Total	600-level		Non-CS courses (pre-approved)
PhD from Master's	4	Maximum of 1	Minimum of 1	Maximum of 1
PhD from Bachelor's	8	Maximum of 3	Minimum of 3	Maximum of 2

Generally speaking...

- Plan to complete at least two courses per term until course requirements are complete
- Remedials do not count towards your course requirements (unless stated in your offer) and must be completed within your first two terms

SUPERVISOR RECOMMENDATIONS

Before making a decision on your courseload, ensure you speak to your supervisor first!

COURSE REQUIREMENTS

The basic requirements for coursework in both MMath and PhD programs.

A function of **course numbers** and **course area/category**.

COMPREHENSIVE-I REQUIREMENTS

An additional requirement <u>for PhD</u> <u>students only</u>. Ensures a student has a broad foundation of Computer Science for future research

Separate from course requirements!



Comp-I: Coverage of <u>6 areas</u>, at least <u>1 from each category</u>

Category	Area		
Computing and	Software Engineering		
Technology	Programming Languages		
	Hardware and Software Systems		
Mathematics of	Algorithms and Complexity		
Computing	Scientific and Symbolic Computing		
	Computational Statistics		
	Quantum Information and Computation		
Applications	Artificial Intelligence		
	Databases		
	Graphics and User Interfaces		
	Bioinformatics		
	Health Informatics		



Student has satisfied coverage of both areas and categories



Comp-I: Coverage of <u>6 areas</u>, at least <u>1 from each category</u>

X Missing one category

Category	Area		
Computing and	Software Engineering		
Technology	Programming Languages		
	Hardware and Software Systems		
Mathematics of	Algorithms and Complexity		
Computing	Scientific and Symbolic Computing		
	Computational Statistics		
	Quantum Information and Computation		
Applications	Artificial Intelligence		
	Databases		
	Graphics and User Interfaces		
	Bioinformatics		
	Health Informatics		

Less than 6 areas

Category	Area		
Computing and	Software Engineering		
Technology	Programming Languages		
	Hardware and Software Systems		
Mathematics of	Algorithms and Complexity		
Computing	Scientific and Symbolic Computing		
	Computational Statistics		
	Quantum Information and Computation		
Applications	Artificial Intelligence		
	Databases		
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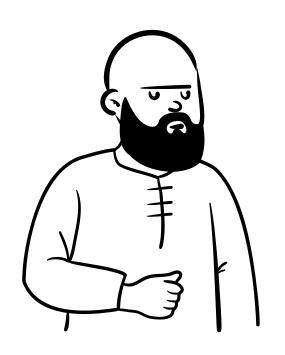


Further requirements to satisfy Comp-I

The courses used to satisfy the Comp-I must:

- Have marks of at least B+ (78% or above);
- Be graduate courses or advanced undergraduate courses (ie. 400-level);
 - Undergraduate courses at 300-level or below will not be accepted!
 - Non-UW courses will be evaluated by the Grad Director and Grad Committee.
 Please submit a course syllabus to determine area eligibility.

A reminder: Comp-I submission



Please submit the Comp-I report early!

By the end of your first month in PhD study, you should submit your report to your graduate coordinator.

Make sure you plan your courses carefully so that the Comp-I is satisfied.

FINAL COURSE ENROLMENT REMINDERS

1. Grad course offerings can be found online:

- Check the Schedule of Classes/Quest for class details
- Check the Course Offerings page for course list and areas

2. Enroll in CS graduate courses online using Quest – starts the month before term

• Do not enrol in more than the courses you will be taking. We monitor for students enrolled in more than three courses.

3. Drop deadline is three weeks into term

UNDERSTANDING YOUR FUNDING

Your funding includes up to three sources:

GRADUATE RESEARCH STUDENTSHIPS (GRS)

TEACHING ASSISTANTSHIPS (TA)

SCHOLARSHIPS



Your funding includes up to three sources:

GRADUATE RESEARCH STUDENTSHIPS (GRS)

TEACHING
ASSISTANTSHIPS (TA)

SCHOLARSHIPS

Paid by:

Your supervisor

How you receive payment:

Lump sum at the beginning of each term through Quest

Responsibilities:

Research-based responsibilities determined by supervisor



Graduate research studentships (GRS)

Please note: your GRS will fluctuate in amount each term depending on how many TA units you have.

- In terms with one TA unit: you will receive a base GRS
- In terms with two TA units: your GRS is <u>reduced</u> as your TA income doubles

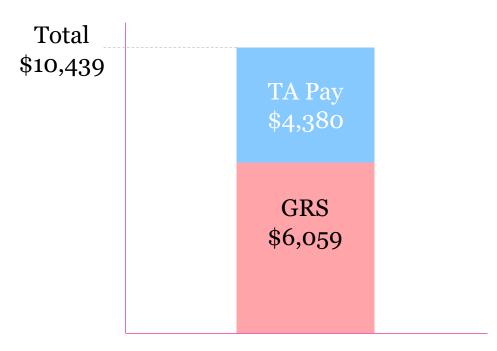
This ensures your GRS + TA base pay remains the same each term, despite how many TA units you have.

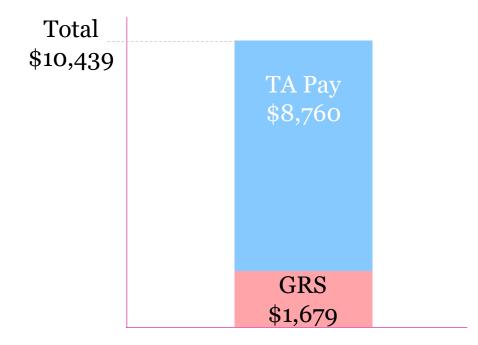
Make sure your banking info is updated in Quest to receive payment when term starts!

Your TA pay and GRS funding will be balanced each term:

In terms with one TA, your GRS will be higher, and your TA pay will be lower

In terms with two TAs, your GRS will be lower, and your TA pay will be higher





Your funding package includes up to three sources:

GRADUATE RESEARCH STUDENTSHIPS (GRS)

Paid by:

Your supervisor

How you receive payment:

Lump sum at the beginning of each term through Quest

Responsibilities:

Research-based responsibilities determined by supervisor

TEACHING ASSISTANTSHIPS (TA)

Paid by:

The university

How you receive payment:

Last Friday of each month, through Workday

Responsibilities:

Outlined in TA contract and via instructor expectations

SCHOLARSHIPS



Teaching assistantships are guaranteed to full-time thesis PhD and MMath students

MMath students usually have four TA units in their 1st year, and three TA units in their 2nd year:

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
E.g. # of TA's	1 TA unit	2 TA units	1 TA unit	1 TA unit	1 TA unit	1 TA unit

PhD students have four TA units in each year:

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6	•••
E.g. # of TA's	1 TA unit	1 TA unit	2 TA units	1 TA unit	1 TA unit	2 TA units	

TA allocations vary term to term. Your TA pattern may not match this example exactly.

One TA unit = 5 hours/week (or 80 hours/term)



Action items for your TA-ship:



- 1. Check your TA assignment on Odyssey
- 2. Read and sign your TA contract
 We cannot hire you as a TA until this is signed!
- 3. Contact the instructor or Instructional Support Coordinator (ISC) If an ISC is assigned to your course, that is your point of contact.

TA trainings in September

In-person training from the CS Grad Department

What: How to grade assignments, your duties as a TA.

When: Date TBD but will be in first or second week of classes.

2. Online workplace trainings

What: Online training completed through LEARN. When: More details to come at Part Two Orientation

3. Information session on TA preference forms

What: In your subsequent terms at UW, you will need to complete a preference form to TA. This session will cover this process so you're prepared for Term 2.0 and beyond.

When: September – more details to come.



Strive to be an exceptional TA!

Being a TA is both a privilege and a responsibility.

Please ensure you are meeting the duties outlined in your contract and by your ISC/course instructor, and attending TA meetings.

- Poorly performing TA's will not get future TA-ships, which reduces your funding.
- Exceptional TA's are eligible for a TA award each year.

Your funding package includes up to three sources:

GRADUATE RESEARCH STUDENTSHIPS (GRS)

Paid by:

Your supervisor

How you receive payment:

Lump sum at the beginning of each term through Quest

Responsibilities:

Research-based responsibilities determined by supervisor

TEACHING ASSISTANTSHIPS (TA)

Paid by:

The university

How you receive payment:

Last Friday of each month, through Workday

Responsibilities:

Outlined in TA contract and via instructor expectations

SCHOLARSHIPS

Paid by:

The university or external org

How you receive payment:

At the beginning of each term through Quest.

Responsibilities:

Continue to meet eligibility requirements as outlined in your offer



Major scholarships

Natural Science and Engineering Research Council Scholarships (NSERC)

- Available to Canadian and Permanent Residents only
- Deadlines for applications:
 - PhD students: October
 - MMath students: December

Ontario Graduate Scholarship (OGS)

- Open to all students; only a small number for international students
- Deadlines for applications:
 - International students: October/February(?)
 - Domestic students: February

You are strongly encouraged to apply if you receive regular GRS and are eligible (average over 85%)! Please check our bi-weekly newsletter for updates on scholarships!



Cheriton scholarships

- Open to all PhD students within program limits with an 80% average
- Three to five awarded each term (subject to availability)
- \$10,000 per year for one or two years
- Call for nominations near the end of each term

Please check our bi-weekly newsletter for updates on scholarships!

If you are running low on funds

- Talk to your supervisor first
- There are some funds available to help those in financial distress

KEY UPCOMING DATES

Key upcoming dates:

COURSE ENROLMENT

FEES ARRANGED DEADLINE

Key upcoming dates:

COURSE ENROLMENT

FEES ARRANGED
DEADLINE

Begins:

July 31st, 2024

Ends:

September 24, 2024

From Sept 25 to Nov 19, you can drop classes in Quest – however, they will remain on your transcript as a WD.



Important links for course enrolment

- Schedule of Classes
 Check here for times/dates of classes
- <u>Current course offerings</u>
 Check here for areas of offered classes
- Search for a class in Quest
 Find the classes you wish to take and view the class instructor
- Enroll in Quest
 You can add or drop classes in Quest from July 31 to September 24.

Key upcoming dates:

COURSE ENROLMENT

FEES ARRANGED DEADLINE

Deadline:

August 20, 2024

Payments and Promissory Notes received after the term due date will result in a Fees Arranged Extension Fee charged to your student account.

What is the fees arranged deadline?

Need to be "fees arranged" by this deadline, meaning:

a) You have paid your tuition out-of-pocket;

OR

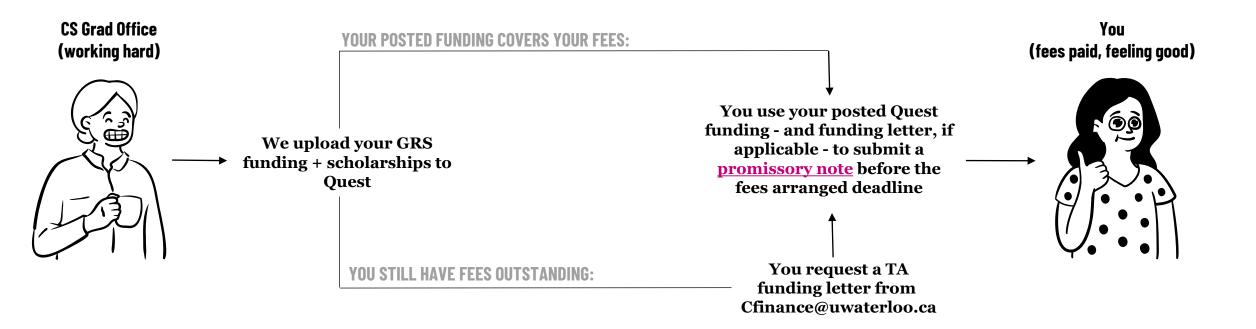
b) You have submitted a <u>promissory note</u> to commit your <u>future</u> funding for that term to your tuition

What is a promissory note?

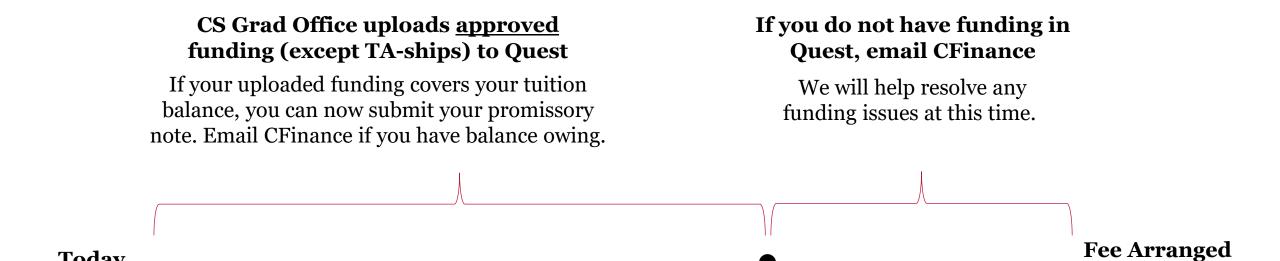
A promissory note tells the University "I would like to apply the funding I'm receiving from my TA/GRS/scholarships towards my tuition and fees."

Your funding is **NOT** automatically applied to your tuition or fees. You **MUST** submit a promissory note if you wish to use your funding for tuition.

How the promissory note process works:



If you're using a promissory note, be aware of the timeline:



Please contact us at <u>cfinance@uwaterloo.ca</u> by the 18th at the latest if you still have no funding posted in Quest.

August 14

Deadline

August 20

Today

Questions?

PhD program csphd@uwaterloo.ca

MMath program csmaster@uwaterloo.ca

Funding cfinance@uwaterloo.ca

Scholarships cmanager@uwaterloo.ca

Deferrals/matriculation csadmiss@uwaterloo.ca

TA Assignments cs-ta@uwaterloo.ca

Other inquiries? cs-gradoffice@uwaterloo.ca

If you're ever in doubt, do not hesitate to reach out to the CS Grad Office!





WATERLOO



DAVID R. CHERITON SCHOOL OF COMPUTER SCIENCE

Welcome new students!

Appendix A: Deferrals

Who can apply for a deferral?

Deferrals are only provided for students with a reason beyond their control.

For e.g.:

- Student permit delays
- Medical emergencies
- Delays in completing undergraduate/graduate degree

Process for obtaining a deferral?

First, please discuss the deferral with your supervisor. You will need their approval.

Please email <u>csadmiss@uwaterloo.ca</u> with the following information <u>before the beginning of</u> term:

- Term you wish to defer to
- Reason for deferral

You will need to have satisfied any conditions on admission to defer (aside from those that can only be completed after starting your program).



Appendix B: Matriculation

If I haven't matriculated yet, how will this impact my first term at UW?

You must be matriculated before accessing the following:

- UW email
- Course enrolment in Quest
- GRS funding
- Being hired as a TA

If you've not matriculated, please ensure you let <u>csadmiss@uwaterloo.ca</u> and <u>gradadmissions@uwaterloo.ca</u> know when you expect to matriculate (if you haven't already).

Fees arrangement and matriculation

Your fees/tuition will not be posted until you have matriculated.

<u>If you matriculate before the August 20 deadline:</u> Ensure you complete your promissory note ASAP – email <u>cfinance@uwaterloo.ca</u> if your funds aren't posted.

If you matriculate after the August 20 deadline: If there are no tuition charges on your student account until on or after the term due date, you will have 14 days to show as Fees Arranged on Quest without incurring a <u>fees arranged extension fee</u>.

