CARLETON COMPUTER SCIENCE SOCIETY

Course Registration and Student Panel

CARLETON COMPUTER SCIENCE SOCIETY

First of all...

Welcome to Carleton!!

Carleton University

Disclaimer

This presentation is primarily for students in the Bachelor of Computer Science program

If you're in the Bachelor of Cybersecurity or Data Science programs, please reach out to the undergraduate advisors for help:

bcyber.ug.advisor@carleton.ca
ds.ug.advisor@carleton.ca

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Jacc Padmakar

Kimia Khorram-Roudi

Veronica Mordvinova

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Agenda

- Carleton Computer Science Society Discord
  - https://discord.com/invite/fvdmVyZbJx
- Schedule
  - Registration Presentation → 30 Minutes
  - Student Panel → 60 Minutes
- Resources
  - BCS First Year Registration Guide
  - Registration steps

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Registration Assistance

For questions about the program, please contact the Undergraduate Advisors:

→ scs.ug.advisor@carleton.ca

Student Registration Assistance Team - For general registration help

→ https://carleton.ca/registration/registration-support/

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Find all the important dates and deadline here!

Academic & Financial Deadlines

- **July 2 - July 4, 2025:** Fall + Winter course registration starts for incoming students (register for both terms!)
- **August 25, 2025:** Fall Payment Deadline
- **September 2, 2025:** Academic Orientation
- **September 9, 2025:** Last day for registration and course changes in early fall courses.
- **September 16, 2025:** Last day for registration and course changes in full fall, late fall and fall/winter courses. Last day to withdraw from early fall courses with a full fee adjustment
- **September 30, 2025:** Last day to withdraw from full fall term and fall/winter courses with a full fee adjustment.
- **November 7, 2025:** Last day to withdraw from late fall term courses with a full fee adjustment.
- **November 15, 2025:** Last day for academic withdrawal from full fall and late fall courses.

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Courses

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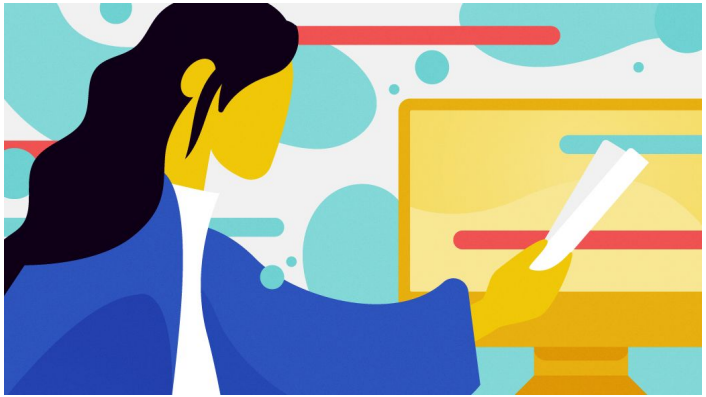
Lecture vs. Tutorials/Labs

- Lectures are the main part where professors will teach you
  - Your **midterms** are usually done in lecture times, so choose your scheduling wisely...
- Your courses will sometimes have tutorials/labs
  - Think of them as extra "classes" or "workshops" conducted by TAs (Teaching Assistants) to help you better understand the course
  - Usually when **quizzes** are done
  - When you register for a lecture course that has tutorials, you must register for one of the tutorials at the same time as the lecture



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General Course Registration FAQ

- How much is each course worth?
  - **Usually, one course lasts one term (four months) and is worth 0.5 credit. Some will be worth 1.0 credit and take up more time (either two terms or double the lecture time in one term)**
- Should I register for both the fall and winter terms?
  - **Yes!**
- Can I register for 2000+ level courses?
  - **Yes, if permitted (check requirements).**
- How many 1000-level credits can I take for my entire program?
  - **Maximum of 7.0 credits**
- Can I take less than 5 courses (2.5 credits)?
  - **Yes.** Reduced Course Load, Minimum Required Course Load (Fall/Winter)

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First Year COMP Courses

- **COMP 1405 - Intro to CS I:** variable types, branching and looping structures, arrays, functions, sorting, searching, and debugging (in Python)
- **COMP 1406 - Intro to CS II:** object-oriented programming, basic data structures, recursion, efficiency, debugging (in Java)
- **COMP 1805 - Discrete Structures I:** logic, proof techniques, set theory, graph theory, asymptotic analysis of algorithms
- **COMP 1405 + 1406 Z**
  - An "accelerated" course for students in Shopify Dev Degree or the Bachelor of Cybersecurity program
    - BCS students with an admit average of 90% or above may submit a registration override request on Carleton Central to register, space permitting.
  - Accelerated = Same content, just condensed into 6 weeks (for each course)
  - In the 2025/2026 year, 1st part of the course will be done in Python and the other part in Java
  - Are early/late fall classes and have different dates associated with registration

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Required Second Year Courses

- **COMP 2401 - Intro to Systems Programming:** memory management, pointers, process management (in C)
- **COMP 2402 - Abstract Data Structures:** stacks, queues, lists, trees, graphs (in Java)
- **COMP 2404 - Intro to Software Eng.:** object-oriented software development (in C++)
- **COMP 2406 - Web Applications:** HTML/CSS, JavaScript programming, database querying, HTTP, REST
- **COMP 2804 - Discrete Structures II:** counting, probability, recurrence relations, randomized algorithms
- **STAT 2507 - Intro to Stat Modelling I:** random variables, probability distributions, distribution of sample mean, hypothesis testing

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First Year MATH Courses

- **Required Math Courses for Computer Science**
  - **MATH 1007 - Calculus I:** limits, derivatives and differentiation, max/min optimization, basic integrals/antiderivatives (similar to Grade 12 Calculus)
  - **MATH 1104 - Linear Algebra I:** systems of linear equations, matrix algebra, vector spaces, eigenvalues, complex numbers
- **Certain minors may require a different MATH course (Ex: Physics Minor)**
  - When asking questions about a minor, ask that minor's department
- **Certain upper year electives may also require a different MATH course**
  - If you think you might want to take 3000 or 4000 level MATH courses in the future, contact the School of Math and Stats for advice before registering for courses

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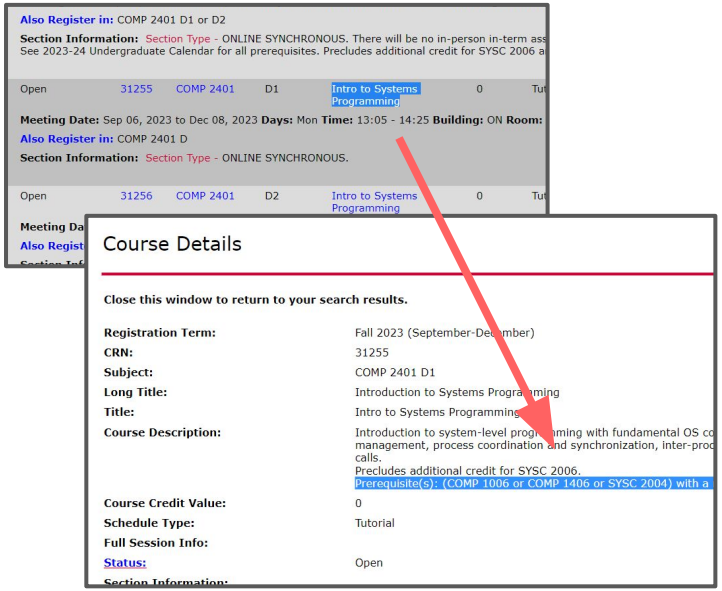
How to Check Prerequisites

The Undergraduate Calendar provides a **list of courses and its prerequisites**:

Check the prerequisites on Carleton Central while building your course schedule

Always check the most recent calendar for prerequisites and preclusions, regardless of the calendar year your program is under.



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Registration Override Requests

- ➔ **Needed when there are errors on your registration**
  - ◆ You don't fit the criteria or it's a restricted course/lab/tutorial
- ➔ **Submit a registration override request in Carleton Central to ask for permission**
  - ◆ How-to video available here
- ➔ **Make sure you check your schedule and submit the request ASAP**
  - ◆ Not guaranteed to be approved
  - ◆ Plan out alternative sections or courses

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Scheduling

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Have you read the School of Computer Science's First Year Registration Guide?

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Scheduling Advice

1. Add in all possibilities
2. Course Syllabus
3. Morning/Evening classes
4. Have lunch time
5. Time-Ticket Madness
6. RateMyProf
7. No Schedule is Perfect

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Scheduling Advice

1. All Possibilities

Add in **all the mandatory courses** you would like to take. This may include...

- COMP1405

- MATH1007

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
07:00							
08:00		COMP 1405 B	MATH 1007 C	COMP 1405 B	MATH 1007 C		
09:00		COMP 1405 B	MATH 1007 C	COMP 1405 B	MATH 1007 C		
		COMP 1405 B	MATH 1007 C	COMP 1405 B	MATH 1007 C		
10:00		MATH 1007 B		MATH 1007 B			
		MATH 1007 B		MATH 1007 B	MATH 1007 CT		
11:00		MATH 1007 B		MATH 1007 B	MATH 1007 CT		
		COMP 1405 T1				COMP 1405 C1	
12:00		COMP 1405 T1				COMP 1405 C1	
		COMP 1405 T1				COMP 1405 C1	
13:00		COMP 1405 B1	MATH 1007 A	COMP 1405 A1 MATH 1007 F	COMP 1405 A2 MATH 1007 A	MATH 1007 F	
		COMP 1405 B1	MATH 1007 A	COMP 1405 A1 MATH 1007 F	COMP 1405 A2 MATH 1007 A	MATH 1007 F	
14:00		COMP 1405 B1	MATH 1007 A	COMP 1405 A1 MATH 1007 F	COMP 1405 A2 MATH 1007 A	MATH 1007 F	
		MATH 1007 BT	COMP 1405 C	COMP 1405 T	COMP 1405 C MATH 1007 AT	COMP 1405 T	
15:00		MATH 1007 BT	COMP 1405 C	COMP 1405 T	COMP 1405 C MATH 1007 AT	COMP 1405 T	
			COMP 1405 C	COMP 1405 T	COMP 1405 C	COMP 1405 T	
16:00			COMP 1405 A COMP 1405 B2	MATH 1007 D	COMP 1405 A COMP 1405 C2	MATH 1007 D	
			COMP 1405 A COMP 1405 B2	MATH 1007 D	COMP 1405 A COMP 1405 C2	MATH 1007 D	
17:00			COMP 1405 A COMP 1405 B2	MATH 1007 D	COMP 1405 A COMP 1405 C2	MATH 1007 D	
						MATH 1007 DT	
18:00			MATH 1007 E	MATH 1007 FT	MATH 1007 E	MATH 1007 DT	
			MATH 1007 E	MATH 1007 FT	MATH 1007 E		
19:00			MATH 1007 E		MATH 1007 E		
			MATH 1007 ET				
20:00			MATH 1007 ET				

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Scheduling Advice

2. Course Syllabus and Location

What kind of course is it? Is it **online-friendly?** What's the **mark breakdown**? Do you need to **sprint across campus**?

In-person section (Campus presence)

Mix of In-person and Online (Campus presence)

Online Scheduled Section (Campus presence is not required)

Online Scheduled Section with In-Person Assessments (Campus presence)

Online Unscheduled Section (Campus presence is not required)

Online Unscheduled Section with In-Person Assessments (Campus presence)

In-person section (Optional campus presence)

Open	31128	COMP 1405	B	Intro to Computer Science I	.5

Meeting Date: Sep 03, 2025 to Dec 05, 2025 **Days:** Tue Thu **Time:** 13:05 - 14:25 **Building:**

Also Register in: COMP 1405 B1 or B2

Section Information: Section Type - MIX OF IN-PERSON AND ONLINE SECTION. For BCS, B.

Grade Computation

Drills		10%
Lab Assignments		60%
Pre-labs	4%	
Labs	48%	
Post-labs	8%	
Midterm Test		12%
Final		18%

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Scheduling Advice

3. Morning/Evening Classes?

Are you a **morning person**? Do you **like to hang out at night**? Plan your schedule accordingly.

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
09:00							
10:00		MATH 1007 B		MATH 1007 B			
		MATH 1007 B		MATH 1007 B			
11:00		MATH 1007 B		MATH 1007 B			
		COMP 1405 T1				COMP 1405 C1	
12:00		COMP 1405 T1				COMP 1405 C1	
		COMP 1405 T1				COMP 1405 C1	
13:00			MATH 1007 A	COMP 1405 A1	COMP 1405 A2 MATH 1007 A		
			MATH 1007 A	COMP 1405 A1	COMP 1405 A2 MATH 1007 A		
14:00			MATH 1007 A	COMP 1405 A1	COMP 1405 A2 MATH 1007 A		
		MATH 1007 BT	COMP 1405 C	COMP 1405 T	COMP 1405 C MATH 1007 AT	COMP 1405 T	
15:00		MATH 1007 BT	COMP 1405 C	COMP 1405 T	COMP 1405 C MATH 1007 AT	COMP 1405 T	
			COMP 1405 C	COMP 1405 T	COMP 1405 C	COMP 1405 T	
16:00			COMP 1405 A		COMP 1405 A COMP 1405 C2		
			COMP 1405 A		COMP 1405 A COMP 1405 C2		
17:00			COMP 1405 A		COMP 1405 A COMP 1405 C2		
18:00							

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Scheduling Advice

4. Lunch Time~

Make sure to **have some time to eat** your lunch.

Can't always align lunch to a specific hour.

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
09:00							
10:00		MATH 1007 B		MATH 1007 B			
		MATH 1007 B		MATH 1007 B			
11:00		MATH 1007 B		MATH 1007 B			
		COMP 1405 T1				COMP 1405 C1	
12:00		COMP 1405 T1				COMP 1405 C1	
		COMP 1405 T1				COMP 1405 C1	
13:00			MATH 1007 A	COMP 1405 A1 MATH 1007 F	COMP 1405 A2 MATH 1007 A	MATH 1007 F	
			MATH 1007 A	COMP 1405 A1 MATH 1007 F	COMP 1405 A2 MATH 1007 A	MATH 1007 F	
14:00			MATH 1007 A	COMP 1405 A1 MATH 1007 F	COMP 1405 A2 MATH 1007 A	MATH 1007 F	
		MATH 1007 BT	COMP 1405 C	COMP 1405 T	COMP 1405 C MATH 1007 AT	COMP 1405 T	
15:00		MATH 1007 BT	COMP 1405 C	COMP 1405 T	COMP 1405 C MATH 1007 AT	COMP 1405 T	
			COMP 1405 C	COMP 1405 T	COMP 1405 C	COMP 1405 T	
16:00			COMP 1405 A	MATH 1007 D	COMP 1405 A COMP 1405 C2	MATH 1007 D	
			COMP 1405 A	MATH 1007 D	COMP 1405 A COMP 1405 C2	MATH 1007 D	
17:00			COMP 1405 A	MATH 1007 D	COMP 1405 A COMP 1405 C2	MATH 1007 D	
						MATH 1007 DT	
18:00			MATH 1007 E	MATH 1007 FT	MATH 1007 E	MATH 1007 DT	
			MATH 1007 E	MATH 1007 FT	MATH 1007 E		
19:00			MATH 1007 E		MATH 1007 E		
			MATH 1007 ET				
20:00			MATH 1007 ET				
21:00							

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Scheduling Advice

5. Time-Ticket Madness

If you have a later time ticket, a **course you want to take might be filled or have you join a waitlist.** Be prepared to make a new schedule right before your time-ticket.

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
09:00							
10:00		MATH 1007 B		MATH 1007 B			
		MATH 1007 B		MATH 1007 B			
11:00		MATH 1007 B		MATH 1007 B			
		COMP 1405 T1				COMP 1405 C1	
12:00		COMP 1405 T1				COMP 1405 C1	
		COMP 1405 T1				COMP 1405 C1	
13:00			MATH 1007 A	COMP 1405 A1	COMP 1405 A2 MATH 1007 A		
			MATH 1007 A	COMP 1405 A1	COMP 1405 A2 MATH 1007 A		
14:00			MATH 1007 A	COMP 1405 A1	COMP 1405 A2 MATH 1007 A		
		MATH 1007 BT	COMP 1405 C	COMP 1405 T	COMP 1405 C MATH 1007 AT	COMP 1405 T	
15:00		MATH 1007 BT	COMP 1405 C	COMP 1405 T	COMP 1405 C MATH 1007 AT	COMP 1405 T	
			COMP 1405 C	COMP 1405 T	COMP 1405 C	COMP 1405 T	
16:00			COMP 1405 A		COMP 1405 A COMP 1405 C2		
			COMP 1405 A		COMP 1405 A COMP 1405 C2		
17:00			COMP 1405 A		COMP 1405 A COMP 1405 C2		
18:00							

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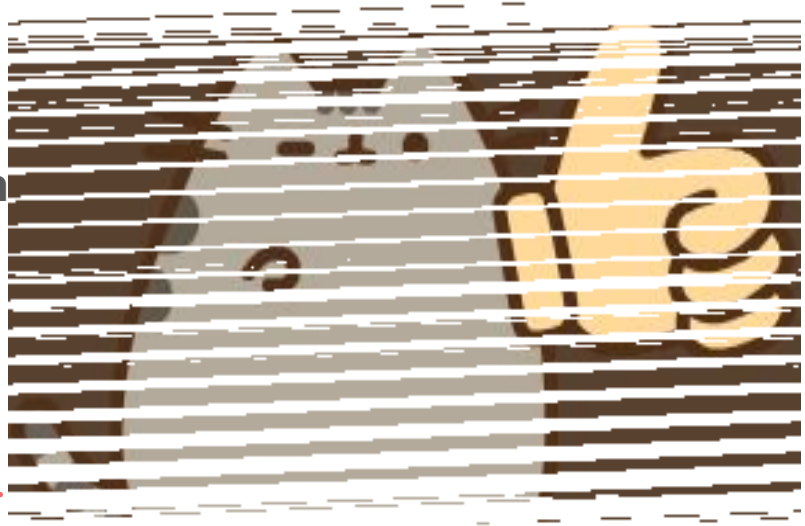
Scheduling Advice

6. RateMyProf

Check **RateMyProf** but **take it with a grain of salt**. When most of the reviews are positive, then it is more credible. Ask upper years too!!

You can also find old course outlines here.

*Note that course outlines can change each year. Use old ones as a general reference, not a guarantee.



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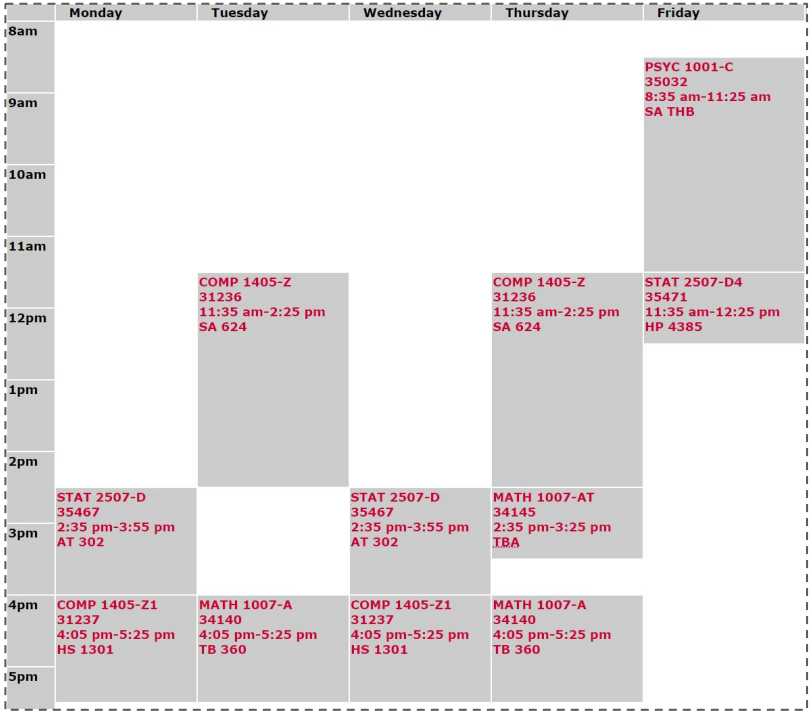
Scheduling Advice

7. No Schedule is Perfect

No matter how hard you try, you **won't be able to get the "perfect" schedule**. We can only mix and match until we **find what works best for us**.

My first year schedule wasn't perfect either. It's natural. Just try your hardest, and that's good enough



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Additional Information

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Carleton Academic Calendar

- Holidays and Reading Week
- Last day to register for courses
- Last day to withdraw from courses
- Last day to get a full refund

Link: https://calendar.carleton.ca/academicyear/

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Additional Scheduling Options

- ➔ **MATH 1007 and MATH 1104 can be taken in either order**
- ➔ **COMP 1805 can be taken in the fall**
- ➔ **Consider taking a **MATH 2000+ course in the winter after the 1000 level prerequisite**
  - ◆ Taking them directly after each other can be easier as you will not have forgotten what you learned in the 1000 level prerequisite
- ➔ ****STAT 2507 can be taken in first year**

** These are strictly additional options! Make sure to look at the SCS First Year Course Selection Guide recommended schedule.

Fall Term	Winter Term
COMP 1405 [0.5] Fall	COMP 1805 [0.5] Winter
MATH 1007 [0.5] Fall	COMP 1406 [0.5] Winter
1.5 credits in Electives	MATH 1104 [0.5] Winter
	1.0 credits in Electives

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You need a grade of C- in COMP 1406, 1805, 2401 and 2404

Taking COMP 2401 or COMP 2402 first will give you the most additional scheduling options later

Always check the undergraduate calendar for prerequisites and preclusions!

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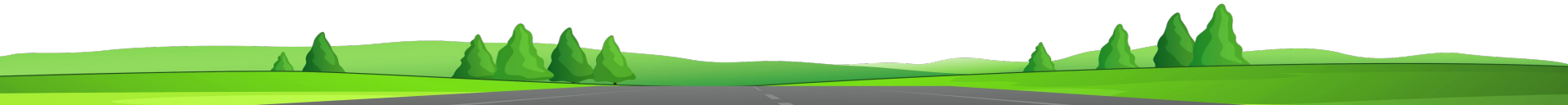
Stream Options / Switching Streams

- ➔ Streams are the CS analog of a specialization
- ➔ **Business** and ***Game Development** are the **only** streams with 1xxx level courses
- ➔ Most other streams do not come into effect until you reach **3xxx** level courses
- ➔ Can add/drop/change a stream via **Carleton Central** as long as you're already in the Honours program. Major students will need to switch to the Honours program in order to add a stream
- ➔ Streams can't be added via Carleton Central until after fall registrations ends. Before this time, contact Admissions

*COMP 1501 - Intro to Computer Game Design is now optional for the game development stream.



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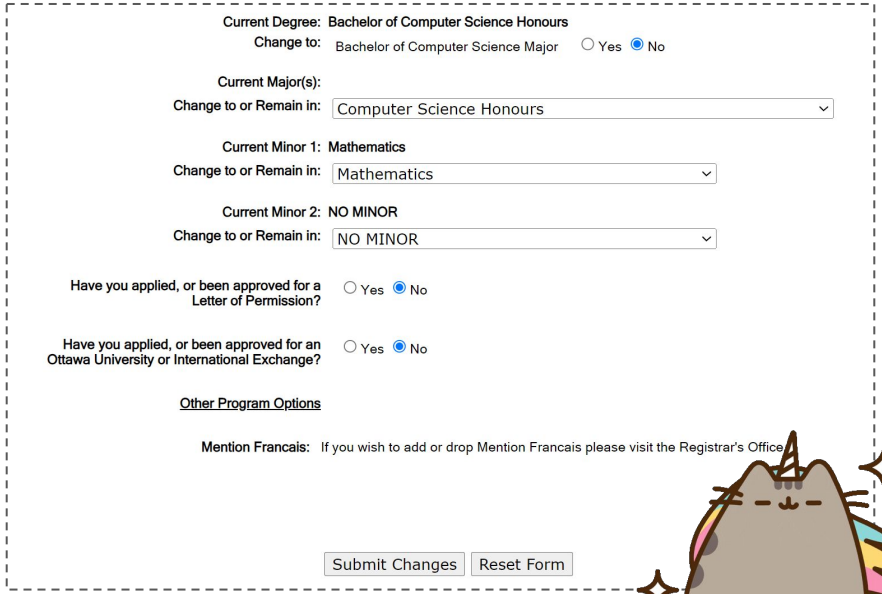
Changing Program Elements

Carleton Central → Student Online Application → Change Program Elements → Change Program Elements

- Change to **Major** or **Honours**
- Add or remove a **minor**
- Change/Add/Drop a **stream**

* First year students need to wait until full fall registration ends before being able to access this form. Before that, they need to contact Admissions for any changes



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Breadth vs Free Electives, Prohibited Courses

- **Prohibited Courses**
  - Courses that will not count towards your degree
  - Refer to newest undergraduate calendar
- **Breadth Electives**
  - Anything other than COMP, STAT, MATH, CSEC, DATA or courses under faculty of Engineering
  - If you go over your Breath Elective Requirement, they will be considered as free electives
- **Free Electives**
  - Additional COMP, STAT, MATH, **CSEC or DATA courses in your degree
  - Additional Breadth courses

The following courses cannot be used for credit in the B.C.S., the Computer Science Minor, or any Combined Computer Science program. **Please note that any courses cross-listed with those on the list are also prohibited**:

BUSI 1401 [0.5]	Foundations of Information Systems
BUSI 2401 [0.5]	Introduction to Data Analytics
BUSI 2402 [0.5]	Business Applications Development
BUSI 3400 [0.5]	Database Design
CGSC 1005 [0.5]	Computational Methods in Cognitive Science
COMP 1001 [0.5]	Introduction to Computational Thinking for Arts and Social Science Students
ECON 1401/MATH 1401 [0.5]	Elementary Mathematics for Economics I
ECON 1402/MATH 1402 [0.5]	Elementary Mathematics for Economics II
MATH 1009 [0.5]	Mathematics for Business
MATH 1119 [0.5]	Linear Algebra: with Applications to Business
all 0000-level courses	
and all courses in BIT, IMD, IRM, MPAD, NET, OSS, PLT and ITEC except for the following: BIT 1000, BIT 1001, BIT 1100, BIT 1101, BIT 1200, BIT 1201, BIT 2000, BIT 2004 (no longer offered), BIT 2005 (no longer offered), BIT 2007 (no longer offred), BIT 2100 (no longer offered), BIT 2300 (no longer offered), MPAD 2501, MPAD 3300, MPAD 3501, MPAD 4001, MPAD 4501, MPAD 4502, MPAD 4503, MPAD 4504.	

**BCS students cannot take CSEC or DATA courses. They will count towards free electives for students that transfer into the BCS program from B.Cyber or BDS.

Check the undergraduate calendar for prerequisites and preclusions, *"Two courses that preclude each other for additional credit means you cannot receive credit for both. Preclusion does not mean that the courses are equivalent"*

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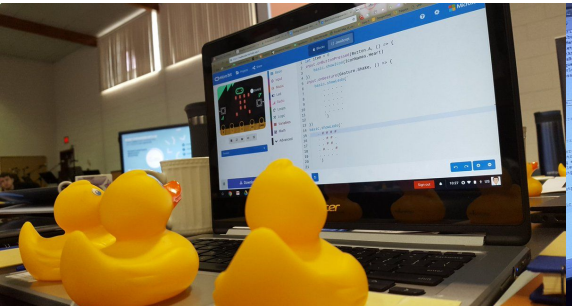
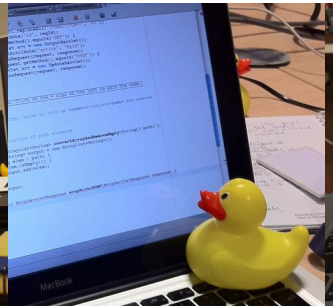
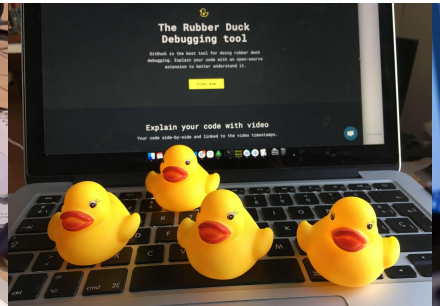
Elective Suggestions

- ➔ Take electives that genuinely interest you, not just bird courses
- ➔ Think about using your electives to do a minor
  - ◆ BCS students can add up to 2 program elements (combination of minors and streams)
- ➔ Save courses that can normally be done online to do while on co-op or during the summer
  - ◆ Not all courses will be offered online every year
  - ◆ Courses taken during co-op terms must be online unscheduled courses, or start after 4:00 PM.

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Some common electives for CS students

- **CGSC 1001: Mysteries of the Mind**
  - The prof Jim Davies is a Cross-Appointed Faculty member (Computer Science & Cognitive Science)
  - He discusses computer science concepts (AI, neural nets etc.) at a very high level in this course
- **LING 1001: Introduction to Linguistics I**
  - More technical than LING 1100
- **LING 1100: The Mysteries of Language**
  - Recommended for people who enjoyed CGSC 1001
- **PHIL 2001: Introduction to Logic**
  - This course covers concepts from COMP 1805
- **PHIL 2003: Critical Thinking**
  - Similar to PHIL 2001

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Transfer Credits

If you took:

- ➔ AP classes and completed the AP exam with a minimum level of 4
- ➔ IB classes and received a grade of 5 or higher
- ➔ French Baccalaureate classes and received a grade of 12 or higher
- ➔ GCE (A level) courses and received a grade of C or higher

you may be eligible to receive advanced standing credit (up to 3.0 credits worth of courses)

Check with Admissions: **admissions@carleton.ca**

Find Carleton course equivalents here

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Learn more here!

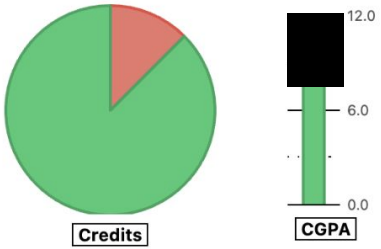
Run Your Audit

Prepared On	06/12/2024 06:42 PM	**Program Code**	BCS-UBCS	**Catalog Year**	Fall 2018
Student ID	[redacted]	**Graduation Date**		**Job ID**	2416418423344223

Audit Results | Course History | Markers

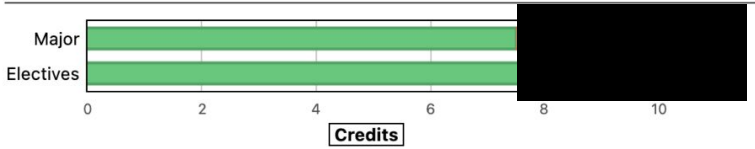
Audit

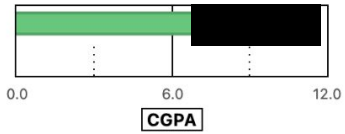
You are here: Audit



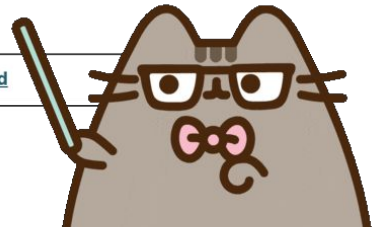
Categories

Click on any area of the graph for further detail.





Complete | In Progress | Unfulfilled | Planned



Note: It is your responsibility (as per the disclaimer in Carleton Central) to review your audit and make sure you are meeting your requirements

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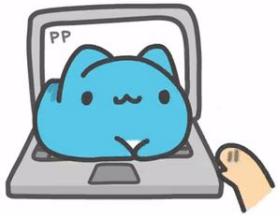
Laptop Recommendations

- SCS Laptop Requirements:
  - CPU: Intel i5/i7/i9/Xeon or AMD Ryzen line
  - 8GB or more RAM
  - 256GB or larger Hard Drive (SSD Recommended)
  - Wifi, Camera, Microphone and Audio
- You can use a Macbook with M-series chips
- Game dev stream has different requirements
  - Windows
  - GPU

Suggestions:

- Good battery life and lightweight
- Dell XPS, Lenovo



Learn more here!

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Resources and FAQs - Link

Resources

Which Electives Should You Take?

There are a lot of options for Computer Science students to explore electives that match their interests, fulfill degree requirements, and even help complete a minor.

Read More

Making a Balanced Course Schedule

Careful planning can help you create a timetable that supports your academic goals, fits your lifestyle, and keeps your workload manageable.

Read More

Should You Take COMP 1405/1406-Z?

Taking the accelerated COMP 1405 Z section enables you to take 2000-level COMP courses earlier, but it's not necessarily the right choice for everyone.

Read More

Ways to Reduce Your Second Year Workload

Strategically selecting courses in your first year can help reduce your second-year workload and set you up for academic success.

Read More

Why You Should Consider a Minor as a CS Student

Instead of just filling elective credits with bird courses, using them toward a minor can help you stand out, deepen your skills, and explore a second area of interest.

Read More

Frequently Asked Questions

Which courses should I take in first year?

There are 5 courses all Computer Science students should take in their first year. Depending on your stream, there may be a few more.

Do I have to take first year courses in a specific order?

COMP 1405 and 1406 should be taken in Fall and Winter respectively. Other first-year core courses can be taken in either term.

Which courses can I take as electives?

You can take any course offered at Carleton as an elective, except for a few prohibited courses.

What is a Breadth elective vs a Free elective?

Breadth Electives cannot be under COMP, MATH, STAT, CSEC, DATA or Engineering. Free Electives can be from any department.

What is the COMP 1405/1406-Z section?

The Z section is an accelerated course that combines the content of COMP 1405 and COMP 1406 into a single term.

Can I take second year courses in first year?

You may be able to take some 2000+ level courses if you meet the prerequisites

Should I take STAT 2507 in first year?

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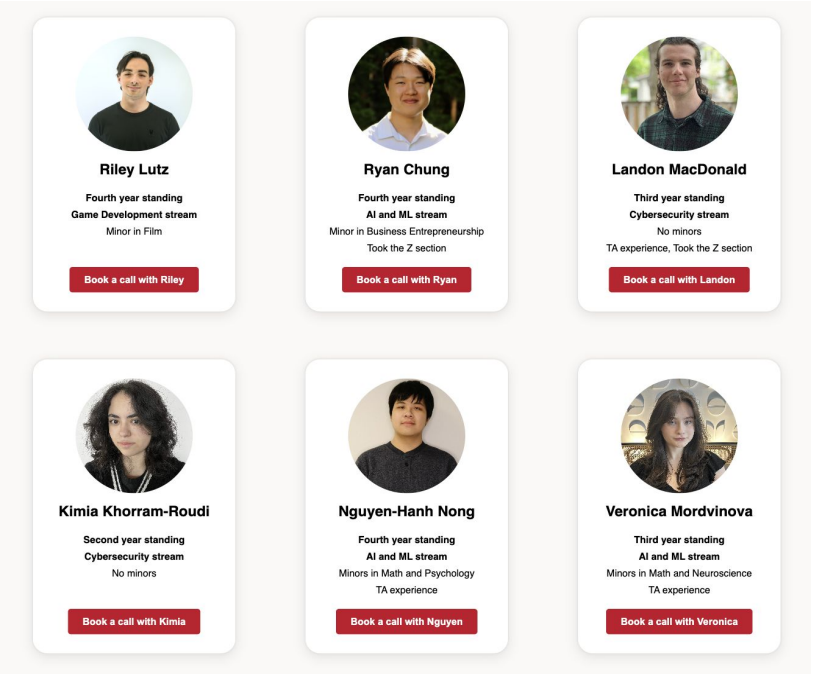
Course Registration Office Hours - Book a Slot



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Student Panel

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Kimia Khorram-Roudi
2nd Year Cybersecurity

Jacc Padmakar
3rd Year AI/ML
Minor in Film, International Student

Landon MacDonald
3rd Year Cybersecurity

Riley Lutz
4th Year Major
Minor in Film, Prev. Game Dev Stream

Nguyen Hanh-Nong
4th Year AI/ML
Minor in Math and Psychology

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Upcoming Social Events

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Thank You!