Building an Awesome Schedule: Course Registration Info Session + Q&A

June 24th, 12:00 - 1:00 PM EST, Zoom (Virtual)
First of all...

Welcome to Carleton!!
Agenda

→ Carleton Computer Science Discord
  ✷ https://discord.com/invite/fvdmVyZbJx

→ Schedule
  ✷ Registration Presentation → 20 Minutes
  ✷ Student Panel → 40 Minutes

→ Resources
  ✷ COMP First Year Registration Guide
  ✷ https://courses.carletoncomputerscience.ca/
Registration Assistance

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

➔ scs.uq.advisor@carleton.ca

Student Registration Assistance Team - For general registration help

➔ https://carleton.ca/registrar/registration/sra/
Academic & Financial Deadlines

➔ July 4 - July 6th, 2023: Course Registration for Incoming students
➔ August 25, 2023: Fall Payment Deadline
➔ September 5, 2023: Academic Orientation
➔ September 19, 2023: Last day to register for Fall term
➔ September 30, 2023: Last day to withdraw from fall term and fall/winter courses with a full fee adjustment

Learn more here.
Academic & Financial Deadlines

→ September 19, 2022: Last day to register for Fall term

→ September 30, 2022: Last day to withdraw from fall term and fall/winter courses with a full fee adjustment

This means you can try a course, and if you dislike it, you can drop with a full fee adjustment
Courses
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” conducted by TAs (Teacher’s Assistant) to help you better understand the course
  ◆ Usually when **quizzes** are done
  ◆ You usually need to register for them separately
General Course Registration FAQ

→ How much is 1 course worth?
  ◆ In most cases, 1 course will last 1 term (4 months) and be worth 0.5 credit. Some will be worth 1 credit and take up more time.

→ 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 courses can I take?
  ◆ 7.0 Credits worth.

→ Can I take less than 5 courses (2.5 Credits)?
  ◆ Yes. [Minimum Required Course Load (Fall/Winter)]
Matters Series Courses

→ COMP 0999 - COMP Matters
  ◆ August 14th-18th
  ◆ Costs $150 including HST

→ MATH 0999 - MATH Matters
  ◆ August 21nd-25th
  ◆ Costs $250 including HST

→ Register via Fall Term in Carleton Section
First Year MATH Courses

 Courses

◆ **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

“Engineering” vs “Science” Math

◆ MATH 1004 covers more content than MATH 1007

◆ MATH 1104 covers more content than MATH 1107

◆ MATH 1004 can replace MATH 1007

Certain minors may require a higher level MATH course (Ex: Physics Minor)

◆ When asking questions about a minor, ask that minor’s department
First Year COMP Courses

→ **COMP 1405 - Intro to CS I**: variable types, branching and looping structures, arrays, functions, sorting, searching, and debugging (in Python or Processing)

→ **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 Dev Degree or who received a 90% and higher admission average and who have received special permission from the department
- Accelerated = Same content, just condensed into 6 weeks (for each course)
- In the 2023/2024 year, 1st part of the course will be done in Python and the other part in Java
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
- **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
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 an override request 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 alternatives sections or courses
Scheduling
Scheduling Guidelines

1. Add in all possibilities
2. Course Syllabus
3. Morning classes
4. Have lunch time
5. Evening Classes
6. Time Ticket Madness
7. No Perfect Schedule
8. RateMyProf
1. All Possibilities

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

- COMP1405
- MATH1007
Scheduling Guidelines

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?

Grading Scheme:

- *Four Tests (60%), (15% each)*
- *Final Examination (40%)*.

Grade Computation

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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</thead>
<tbody>
<tr>
<td>Drills</td>
<td>10%</td>
</tr>
<tr>
<td>Lab Assignments</td>
<td>60%</td>
</tr>
<tr>
<td>Pre-labs</td>
<td>4%</td>
</tr>
<tr>
<td>Labs</td>
<td>48%</td>
</tr>
<tr>
<td>Post-labs</td>
<td>8%</td>
</tr>
<tr>
<td>Midterm Test</td>
<td>12%</td>
</tr>
<tr>
<td>Final</td>
<td>18%</td>
</tr>
</tbody>
</table>
3. Morning Classes?

If you sleep late, do you want to **wake up at 8am for class**? If not, remove morning classes. Personally, I fell asleep in all my morning classes.
4. Evening Classes?

Do you like to hang out with peeps? If so, you might not want to have evening classes.
Scheduling Guidelines

5. Lunch Time~
Make sure to **have some time to eat your lunch.**
Can’t always align lunch to a specific hour.
6. Time-Ticket Madness

If you have a later time ticket, a course you want to take might be filled. Be prepared to make a new schedule right before your time.
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.
8. 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!!!

Also check whether they have taught the course before.
How to Check Pre-Reqs

The Undergraduate Calendar provides a list of courses and its prerequisites: [https://calendar.carleton.ca/undergrad/undergradprograms/computerscience/#courseinventory](https://calendar.carleton.ca/undergrad/undergradprograms/computerscience/#courseinventory)

Check the prerequisites on Carleton Central while building your course schedule.
How to Check Pre-Reqs

The best way is to check a program prerequisite chart
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 Streams

Have you applied, or been approved for a Letter of Permission?  
○ Yes  ● No

Have you applied, or been approved for an Ottawa University or International Exchange?  
○ Yes  ● No

Mention Francais: If you wish to add or drop Mention Francais please visit the Registrar’s Office.

Submit Changes  Reset Form
Additional Information
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/
Additional Scheduling Options

→ MATH 1007 and MATH 1104 can be taken in either order

→ Consider Taking a MATH 2000+ course in the winter after the 1000 level equivalent
  ◆ Taking them directly after each other can be easier as you will not have forgotten what you learned in
  the 1000 level equivalent

→ STAT 2507 can be taken in first year

→ COMP 1805 can be taken in the fall

** These are strictly additional options, it is best to follow the recommended schedule.
*** Taking COMP 2401 or COMP 2402 first will give you the most additional scheduling options later.
Breadth vs Free vs Prohibited Electives

→ Prohibited Electives/Courses
◆ Courses that will not count towards your degree
◆ Refer to newest undergraduate calendar

→ Breadth Electives
◆ Not COMP, STAT, MATH 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 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:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSI 1401</td>
<td>Foundations of Information Systems</td>
</tr>
<tr>
<td>BUSI 2401</td>
<td>Introduction to Data Analytics</td>
</tr>
<tr>
<td>BUSI 2402</td>
<td>Business Applications Development</td>
</tr>
<tr>
<td>BUSI 3400</td>
<td>Database Design</td>
</tr>
<tr>
<td>CGSC 1005</td>
<td>Computational Methods in Cognitive Science</td>
</tr>
<tr>
<td>COMP 1001</td>
<td>Introduction to Computational Thinking for Arts and Social Science Students</td>
</tr>
<tr>
<td>ECON 1401/MATH 1401</td>
<td>Elementary Mathematics for Economics I</td>
</tr>
<tr>
<td>ECON 1402/MATH 1402</td>
<td>Elementary Mathematics for Economics II</td>
</tr>
<tr>
<td>MATH 1009</td>
<td>Mathematics for Business</td>
</tr>
<tr>
<td>MATH 1119</td>
<td>Linear Algebra: with Applications to Business</td>
</tr>
</tbody>
</table>

all 0000-level MATH courses

and all courses in BIT, IMD, IRM, MPAD, NET, OSS, PLT and ITEC except for the following:
Stream Options / Switching Streams

→ Stream = “Specialization”, != concentration

→ **Business** and **Game Dev** = only streams with required 1st year courses

→ Most other streams do not come into effect until you reach **3xxx** level courses

→ Can transfer streams via **Carleton Central** so long as you’re already in a stream or in Honours

→ If you complete the Game Dev stream specific courses and decide to switch streams later, these courses will count as free electives.

→ Streams can’t be added until after fall registrations ends. Before this time, contact Admissions
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 (minors, 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
Most 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
More Elective Suggestions

→ Science
  ◆ BIOL 1010
  ◆ BIOL 2903
  ◆ ERTH 1006
  ◆ ERTH 2401
  ◆ ERTH 2415
  ◆ ERTH 2403
  ◆ PHYS 1902

→ Language
  ◆ FREN 1001
  ◆ KORE 1010
  ◆ JAPA 1010

→ Reading + Analysis
  ◆ LAWS 1001

→ Writing
  ◆ COMS 2200
  ◆ FILM 1101
  ◆ FILM 2809
  ◆ SOCI 1001
  ◆ TSES 2305
  ◆ TSES 3001
  ◆ TSES 3002
  ◆ TSES 4008

→ Memorization
  ◆ ECON 1001
  ◆ ECON 1002
  ◆ PSYC 1001
  ◆ PSYC 1002
  ◆ CLCV 1002

→ Miscellaneous
  ◆ BUSI 1402
  ◆ BUSI 2204
  ◆ ENGL 1008
  ◆ MUSI 2608
  ◆ PHIL 1000
  ◆ PSYC 2400
If you took AP classes in high school and completed the AP exam with a level of 4, you can receive advanced standing credit.

https://admissions.carleton.ca/apply/transfer-credit/transferadvanced-standing-credit-ap/

<table>
<thead>
<tr>
<th>AP Course</th>
<th>Carleton Equivalence</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP Art History</td>
<td>ARTH 1100 (0.5) + ARTH 1101 (0.5)</td>
</tr>
<tr>
<td>AP Biology</td>
<td>BIOL 1103 (0.5) + BIOL 1104 (0.5)</td>
</tr>
<tr>
<td>AP Calculus AB</td>
<td>MATH 1007 (0.5)</td>
</tr>
<tr>
<td>AP Calculus BC</td>
<td>MATH 1007 (0.5) + MATH 2007 (0.5)</td>
</tr>
<tr>
<td>AP Chemistry</td>
<td>CHEM 1001 (0.5) + CHEM 1002 (0.5)</td>
</tr>
<tr>
<td>AP Chinese Language</td>
<td>CHIN 2XXX (1.0)</td>
</tr>
<tr>
<td>AP Micro Economics</td>
<td>ECON 1001 (0.5)</td>
</tr>
<tr>
<td>AP Macro Economics</td>
<td>ECON 1002 (0.5)</td>
</tr>
<tr>
<td>AP English Language</td>
<td>ENGL 1XXX (1.0)</td>
</tr>
<tr>
<td>AP English Literature and Composition</td>
<td>ENGL 1XXX (1.0)</td>
</tr>
<tr>
<td>AP Environmental Science</td>
<td>ENSC 1XXX (0.5)</td>
</tr>
<tr>
<td>AP European History</td>
<td>HIST 1XXX (1.0)</td>
</tr>
<tr>
<td>AP French: Language or Literature</td>
<td>FREN 1XXX (1.0)</td>
</tr>
<tr>
<td>AP German Language</td>
<td>GERM 1XXX (1.0)</td>
</tr>
<tr>
<td>AP Government &amp; Politics: Comparative</td>
<td>PSCI 1XXX (0.5)</td>
</tr>
<tr>
<td>AP Government &amp; Politics: United States</td>
<td>PSCI 1XXX (0.5)</td>
</tr>
<tr>
<td>AP Human Geography</td>
<td>GEOG 1XXX (0.5)</td>
</tr>
<tr>
<td>AP Latin: Literature or Virgil</td>
<td>LATN 2200 (0.5) + LATN 2201 (0.5)</td>
</tr>
<tr>
<td>AP Music Theory</td>
<td>MUSI 1106 (0.5) + MUSI 1107 (0.5)</td>
</tr>
<tr>
<td>AP Physics B</td>
<td>PHYS 1007 (0.5) + PHYS 1008 (0.5)</td>
</tr>
<tr>
<td>AP Physics C (Mechanics)</td>
<td>PHYS 1001 (0.5)</td>
</tr>
<tr>
<td>AP Physics C (Electricity and Magnetism)</td>
<td>PHYS 1002 (0.5)</td>
</tr>
<tr>
<td>AP Physics 1 &amp; 2</td>
<td>PHYS 1007 (0.5) + PHYS 1008 (0.5)</td>
</tr>
<tr>
<td>AP Psychology</td>
<td>PSYC 1001 (0.5) + PSYC 1002 (0.5)</td>
</tr>
<tr>
<td>AP Spanish Language</td>
<td>SPAN 3010 (0.5)</td>
</tr>
<tr>
<td>AP Spanish Literature</td>
<td>IASS 1XXX (1.0)</td>
</tr>
<tr>
<td>AP Statistics</td>
<td>STAT 2507 (0.5)</td>
</tr>
<tr>
<td>AP United States History</td>
<td>HIST 1XXX (1.0)</td>
</tr>
<tr>
<td>AP World History</td>
<td>HIST 1XXX (1.0)</td>
</tr>
</tbody>
</table>
Laptop Recommendations

→ SCS Laptop Requirements:
  ◆ CPU: Intel i5/i7/i9
  ◆ 8GB or more RAM
  ◆ 256GB or larger Hard Drive (SSD Drive Recommended)
  ◆ Wifi, Camera, Microphone and Audio

→ Game dev stream has different requirements
  ◆ Windows 10
  ◆ GPU

→ You can use a Macbook with the M1 chip
  ◆ Will have to do many workarounds

Suggestions:
  → Good battery life and lightweight
  → Dell XPS, Lenovo
Student Panel
Kelly Huang
2nd Year + Minor in Psyc

John Lu
2nd Year + Minor in Math

Ryan Chung
2nd Year + Minor in Entrepreneurship

Shirley Zhan
3rd Year + Minor in Japanese

Laura Jin
3rd Year Game Dev + Minor in Math

Nazeeha Harun
4th Year Cyber Security + International

Richard Kim
4th Year + Minor in Bio and Greek and Roman Studies

Victor Li
4th Year Cyber Security + Minor in Math
Speed Friending

Join us on Discord for a great time making new friends!

July 1st, 12:00 - 1:00 PM EST, Discord (Virtual)

https://discord.com/invite/fvdmVyZbJx