

# Course Outline Template

## COMP 1234A for Term (Fall/Winter/Summer) 20XX (Preliminary Version)

Introduction to Computer Science I

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### Course Information

Instructor: Pat Morin

Contact: [morin@scs.carleton.ca](mailto:morin@scs.carleton.ca)

Classroom: Check on Carleton Central for the room location.

Lectures: Tuesdays & Thursdays, 14:35 – 15:55 (2:35pm-3:55pm)

Course Website: <https://patmorin.me/teaching/5408/>

### Graduate courses only:

- Brightspace access for University of Ottawa Students; please see information here: <https://gradstudents.carleton.ca/faculty-of-graduate-and-postdoctoral-affairs-access-to-brightspace/>
- uOttawa OCICS students will not have access to Carleton Central. For now, please list the room location on Brightspace. Graduate Studies is working on a more permanent solution.
- University of Ottawa Students who need access to SCS IT resources such as openstack and nextcloud must submit a request to SCS Tech Support [SCS.Tech.Support@cunet.carleton.ca](mailto:SCS.Tech.Support@cunet.carleton.ca). The request must be sent from their @cmail.carleton.ca email address and the email should say which resource is required and for which course (including section).

For information about Carleton's academic year, including registration and withdrawal dates, see [Carleton's Academic Calendar](#).

### Course Calendar Description

Simple methods of data structure design and analysis that lead to efficient data structures for several problems. Topics include randomized binary search trees, persistence, fractional cascading, self-adjusting data structures, van Emde Boas trees, tries, randomized heaps, and lowest common ancestor queries.

### Required Textbook(s) and Other Resources

List all textbooks, course books, online resources or links required for the course.

### Topics Covered and Learning Outcomes

Refer to the course webpage

- Important dates and deadlines can be found here: <https://carleton.ca/registrar/registration/dates/academic-dates/>, including class suspension for fall, winter breaks, and statutory holidays.

## Assessment Scheme

Class participation 10%

Assignment 1 15%

Assignment 2 15%

Assignment 3 15%

Contribution to public knowledge 15%

Final project 30%

*If you are unsure of the expectations regarding academic integrity (how to use and cite references, if unauthorized collaboration with lab- or classmates is permitted (and, if so, to what degree), then you must ASK your instructor. Sharing assignment or quiz specifications or posting them online (to sites like Chegg, CourseHero, OneClass, etc.) is ALWAYS 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. Information, process and penalties for such offences can be found on the ODS webpage: <https://science.carleton.ca/students/academic-integrity/>.*

Many of the assessed activities in this course were designed to be completed by an individual working alone. Unless it is explicitly stated otherwise, the use of any will be considered academic misconduct. This includes, but is not limited to, chatbots (e.g., ChatGPT, Google Bard, Bing Chat), research assistants (e.g., Elicit), and image generators (e.g., Stable Diffusion, Dall-E), etc.

An exception to the above rule is made for automated grammar and punctuation checking tools (such as Grammarly).

References to any material you use but did not originate must use the IEEE/APA/MLA citation style. Failure to reference materials correctly can result in severe penalties, and the use of manufactured (i.e., falsified) or misleading references will be treated as evidence of plagiarism and considered academic misconduct.

Everything you submit for evaluation (i.e., assignments, quizzes, tutorials, examinations, etc.) must be the result of your own work and only your own work. If you use more than five consecutive words from a single source without providing a valid reference, then that is considered plagiarism and an example of academic misconduct.

## Graduate Academic Advisors

The Graduate Advisors for the School of Computer Science are available in Room 5302 HP; or by email at [grad.scs@carleton.ca](mailto:grad.scs@carleton.ca). The graduate advisors can assist with understanding your academic audit and the remaining courses required to meet graduation requirements.

## University Policies:

- **Academic Accommodations**

Carleton is committed to providing academic accessibility for all individuals. Please review the academic accommodation available to students here: <https://students.carleton.ca/course-outline/>.

- **Academic Integrity**

**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 sanctioned with penalties which range from a reprimand to receiving a grade of F in the course, or even being suspended or expelled from the University. Examples of punishable offences include plagiarism and unauthorized collaboration. Any such reported offences will be reviewed by the office of the Dean of Science. More information on this policy may be found on the ODS Academic Integrity page: <https://carleton.ca/registrar/academic-integrity/>.

**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. More information and standard sanction guidelines can be found here: <https://science.carleton.ca/students/academic-integrity/>.

**Unauthorized 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".