New to University? Teaching Assistants (TAs) support the course by grading assessments, supervising tutorials, and providing assistance with course content during office hours. You are encouraged to attend office hours (schedule is on Brightspace) with specific questions to get course and assignment support.

Carleton University acknowledges the location of its campus on the traditional, unceded territories of the Algonquin nation.

1. About the Course

Calendar Description: Introduction to computer science and programming. Topics include: algorithm design; control structures; variables and types; linear collections; functions; debugging and testing. Special attention is given to procedural programming in a modern language, computational thinking skills, and problem decomposition.

Textbooks and Other Resources: There is one required textbook, also freely available online.

Objectives: The goal of this course is to introduce you to programming and computational thinking. A student who completes all of the material in the course will learn about algorithms, be able to apply problem solving techniques to a wide range of problems, differentiate different types of data, and be able to solve problems using the Python programming language. While this course uses Python, the concepts taught throughout this course can apply to many different programming languages.

Topics Covered: If a student attends every lecture and completes every assignment and tutorial, then by the end of this course that student should be able to:

- Design and express simple algorithm using flowcharts and pseudocode
- Implement simple algorithms using the Python 3 programming language
- Create expressions with arithmetic, logical, and comparative operations
- Create branching and repeating control structures, with and without nesting
- Explain variable assignment, primitive data types, and the basics of computer memory
- Trace simple algorithms and programs without the aid of a computer
- Design and implement functions and explain function scope and recursion
- Create, access, and manipulate linear, multidimensional, and associative collections
- Implement some basic sorting algorithms (i.e., selection sort, bubble sort, merge sort)
- Implement some basic searching algorithms (i.e., linear search, binary search)
- Describe some simple approaches to debugging, test case design, and error handling
2. Assessments

Grading: Your grade in this course is made up of various parts. There will be weekly tutorials (beginning the week of Sept. 11), the best 8 of 11 weekly assignments, 2 quizzes, and a final examination (scheduled by the school registrar). There will be no extra credit assignments. Your final grades will be calculated as following:

- Tutorials (10x1%)................................................................. 10%
- Assignments (Best 8 of 11 x5%) ................................. 40%
- Quizzes (Online Asynchronous, 2x15%, Oct. 13, Nov. 17) ......... 30%
- Final Exam (Scheduled by Registrar)................................. 20%

Assignments: Completing assignments is mandatory. You will be uploading your submissions to Brightspace. The assignment component of your final grade is computed using only the best eight of the scores you receive on your assignments. Due to this built-in flexibility, the instructor will not grant exemptions for assignments under any circumstances. You are expected to work on your assignments consistently upon release, and upload your progress to the submission periodically (ideally, at least once every 48 hours). As you are expected to submit periodically and consistently, technical issues near the submission deadline will not be considered for exemptions.

If you are experiencing extenuating circumstances requiring additional accommodations (for example: ongoing medical issues), you may petition the Associate Dean’s office. Assignments are all due on Fridays at 11:59PM EST, but assignments will be accepted without penalty until Sundays at 11:59PM.

Tutorials: Completing the tutorial material is mandatory; however, attendance to the tutorial session itself is recommended to receive TA assistance, but is not required. If you are attending the tutorial, you should be attending the tutorial section in which you are registered, unless you have made special arrangements with the instructor.

Quizzes: Quiz participation is mandatory. Quizzes will be conducted online using Brightspace. Quizzes can be completed any time within the 48-hour period. Dates are subject to change, with a minimum of two weeks notice. During the days that the quiz is running, no lectures will be held - you may use the regularly scheduled time to complete the quiz, if you choose, although no additional support can be provided during this time.

**Quiz and Tutorial Exemptions:**
If you are ill during the period of a quiz, you may be granted an exemption only if you submit a copy of Carleton’s official Self-Declaration Form (in lieu of a medical certificate) available online here: [https://carleton.ca/registrar/cu-files/covid-19-self-declaration-form/](https://carleton.ca/registrar/cu-files/covid-19-self-declaration-form/)

Students cannot for any reason be exempted from more than one (1) quiz.
A self-declaration form must be emailed to the instructor within 48 hours of the quiz start time.

Students cannot for any reason be exempted from more than two (2) tutorials.
A self-declaration form must be emailed to the instructor before the tutorial submission deadline.
3. Important COMP 1005 Course Policies

**Plagiarism Policy:** A separate plagiarism policy document which describes what might be considered an academic offence in this course can be found on the course website. Students must read this document thoroughly and must agree to adhere to this policy and all policies stated in this course outline before course resources will be made available.

For information about up-to-date penalties regarding academic integrity violations, refer to the following resource: https://science.carleton.ca/academic-integrity/

For a first offence, first year students will receive no credit for the assessment in question, or a final grade reduction of one full letter grade (eg. an A- becomes a B-), whichever is a greater reduction. For a first offence for any other student, students will receive a grade of F in the course. Please refer to the resource above for additional information regarding standard penalty guidelines.

**Communication Policy:** In order to reduce the volume of emails and expedite responses, the only emails that should be sent to the instructor, teaching assistants, or lab coordinators should require confidentiality or is personal in nature, and be handled via direct email from a Carleton email address.

Students are expected to check their Carleton email addresses daily for announcements. Reminders for upcoming assignment deadlines will be handled using the default Brightspace notifications system, so if you require reminders, check that your Brightspace settings will send notifications.

Students should only expect responses within 3 business days during business hours (8:30AM - 5:30PM, Monday - Friday). Plan ahead - questions asked over the weekends may go unanswered until the following week.

To make sure communication is handled in a timely manner, follow these guidelines:

1. Any email communication must include [COMP 1005B] in the subject line and include all relevant information for your inquiry
2. Assignment questions should first be dealt with by discussing with a TA during office hours or via the Brightspace forums
3. Course material assistance can be handled via Brightspace forums or, if time allows, during instructor office hours.
4. For technical issues, first look on the Brightspace forums or the course resources, then check the SCS technical support page, then inquire with teaching assistants who may forward your concern to the instructor.
5. Students must behave in a professional manner in all communications. Any communication that is seen as abusive, discourteous, or unprofessional may be moderated, ignored, or reported to the university for disciplinary action.

**Grade Disputes:** It is your responsibility to ensure that quiz, tutorial, and assignment marks posted to Brightspace are accurate and correct within one week of the date the marks were released. Concerns must first be communicated to the teaching assistant that graded the assessment, then if the result is unsatisfactory, can be forwarded to the instructor. After one week, no further consideration will be offered and marks will not be changed.
4. Important Considerations

1. Assignments are technically due on Fridays by 11:59PM EST, although a grace period is provided which allows submissions without penalty until Sundays at 11:59PM EST, at which point submissions will be cut off. As per the communication policy, you should not expect to receive assistance with the assignment during this grace period.

2. Verifying the correctness of assignment submissions is your responsibility.
   a. You are expected to submit regularly as you work on the assignment.
   b. You are expected to download and test your submission to make sure it is both complete and correct. If your submission is missing files, or if your code cannot be run, or if your code cannot be opened and read for marking purposes, you may receive a grade of zero.
   c. You are expected to verify all submission requirements (eg. file types, file names) are met. If files are named incorrectly or packaged incorrectly, you may be penalised up to receiving a zero.
   d. You are expected to submit long before the final deadline; any submissions submitted even one minute following the grace period cut-off (Sundays at 11:59PM EST) will receive a zero.

3. You can expect to spend at least eight (8) hours per week on this course, in addition to lecture time.

4. You are required to have a laptop. Every student that has been enrolled in a 1000-level course offered by the School of Computer Science after the 2020/2021 school year is required to have a laptop. For information is available here: [https://carleton.ca/scs/scs-laptop-requirement/](https://carleton.ca/scs/scs-laptop-requirement/)

5. Questions should be posed on official course discussion boards. As per the communication policy, all email communication should be kept to a minimum and utilised only if the nature is private or personal.

6. All materials created for this course remain the intellectual property of the instructor. These materials are intended for the personal and non-transferable use of students registered in the current offering of the course. Reposting, reproducing, or redistributing any course materials, in part or in whole, without the written consent of the instructor is strictly prohibited.

5. Course Modality

This course is taking a hybrid approach to learning, but note that this approach is experimental and may be subject to change during the term. Some lectures will be presented in-person to promote topical discussion, and some lectures will be held online to promote coding alongside the lecture-. Which lectures will be held online and which lectures will be held in-person will be available and updated in the tentative course calendar posted to the course website. Please make sure to check your email for announcements that might override what is in the calendar (eg. due to illness or content adjustment).

In-person lectures should be assumed to be streamed and recorded via Zoom, with links to the Zoom meeting available on the course website. There is always the risk of technical issues occurring with these lectures, and students should make an effort to attend in-person if they are comfortable and capable.

Please note that by participating in these lectures, either online or in-person, that you may be included in these recordings. When attending on Zoom, Zoom will always notify meeting participants that a meeting is being recorded. It is not possible to disable this notification.

Please note that recordings are protected by copyright. The recordings are for your educational use, and you are not permitted to publish to third party sites. If you have concerns about being recorded, please email the instructor directly so we can discuss these.
6. School of Computer Science Information

**Undergraduate Advisor:** The Undergraduate Advisor for the School of Computer Science is available in Room 5302C HP; or by email at scs.ug.advisor@cunet.carleton.ca. The undergraduate advisors can assist with information about prerequisites and preclusions, course substitutions/equivalencies, understanding your academic audit and the remaining requirements for graduation. The undergraduate advisors will also refer students to appropriate resources such as the Science Student Success Centre, Learning Support Services and Writing Tutorial Services.

**SCS Computer Laboratory:** SCS students can access one of the designated labs for your course. The lab schedule can be found at: [https://carleton.ca/scs/tech-support/computer-laboratories/](https://carleton.ca/scs/tech-support/computer-laboratories/). All SCS computer lab and technical support information can be found at: [https://carleton.ca/scs/technical-support/](https://carleton.ca/scs/technical-support/). Technical support is available in room HP5161 Monday to Friday from 9:00 until 17:00 or by emailing SCS.Tech.Support@cunet.carleton.ca.

7. University Policies

For information about Carleton’s academic year, including registration and withdrawal dates, see **Carleton’s Academic Calendar**.

**Pregnancy Obligation.** Please contact your instructor with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details, visit **Equity Services**.

**Religious Obligation.** Please contact your instructor with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details, visit **Equity Services**.

**Academic Accommodations for Students with Disabilities.** If you have a documented disability requiring academic accommodations in this course, please contact the Paul Menton Centre for Students with Disabilities (PMC) at 613-520-6608 or pmc@carleton.ca for a formal evaluation or contact your PMC coordinator to send your instructor your Letter of Accommodation at the beginning of the term. You must also contact the PMC no later than two weeks before the first in-class scheduled test or exam requiring accommodation (if applicable). After requesting accommodation from PMC, meet with your instructor as soon as possible to ensure accommodation arrangements are made. For more details, visit the **Paul Menton Centre website**.

**Survivors of Sexual Violence.** As a community, Carleton University is committed to maintaining a positive learning, working and living environment where sexual violence will not be tolerated, and survivors are supported through academic accommodations as per Carleton’s Sexual Violence Policy. For more information about the services available at the university and to obtain information about sexual violence and/or support, visit: [carleton.ca/sexual-violence-support](http://carleton.ca/sexual-violence-support)
Accommodation for Student Activities. Carleton University recognizes the substantial benefits, both to the individual student and for the university, that result from a student participating in activities beyond the classroom experience. Reasonable accommodation must be provided to students who compete or perform at the national or international level. Please contact your instructor with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details, see the policy.

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 awarded penalties which range from a reprimand to receiving a grade of F in the course or even being expelled from the program or University. Examples of punishable offences include: plagiarism and unauthorised co-operation or collaboration. Information on this policy may be found here.

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. Standard penalty guidelines can be found here.

Unauthorised Co-operation or 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". Please refer to the course outline statement or the instructor concerning this issue.

…And I hope you enjoy the course and have a great term!