

People

Instructor	Prosenjit (Jit) Bose jit@scs.carleton.ca	HP5175	Office Hours: TBD
TA's	https://brightspace.carleton.ca	Office TBD	Office Hours: TBD

Course Information

Class Time	Days: Tuesday & Thursday Time: 8:35 - 9:55
Class Location	Building: AT Room: 101
Course Website	https://brightspace.carleton.ca

The delivery of material will consist of the following:

- **Lectures** will be given **live** and **in class**.
- **Assignments** will be **typeset, exported to pdf**, and uploaded to **Brightspace**.
- The two **tests** will be **in class**.
- **TA office hours** TBD.
- In addition to office hours, questions pertaining to general course material can be asked / answered on a discussion board in **Brightspace**.
- The **final exam** will be an **in-person exam** scheduled by registrar.

In the event that we return to online classes due to covid, all information will be posted on **Brightspace**.

Course Description

A second course that is designed to give students a basic understanding of Discrete Mathematics and its role in Computer Science. Computers handle discrete rather than continuous data. This course presents an overview of some of the major theoretical concepts needed to analyze this type of data. Topics covered include counting, recursion, discrete probability, random variables, randomized algorithms. Material is illustrated through examples from computing.

Prerequisites

Must have prerequisite COMP 1805 with C- or above to remain in course. Grade of B+ or greater required in COMP 2804 to take COMP 3801.

⁰In the event that we revert to online classes.

Reference Textbook

The following free textbook will be used: [Discrete Structure for Computer Science: Counting, Recursion, and Probability](#). Additional material: [Mathematics for Computer Science](#) by Eric Lehman, F. Thomson Leighton, and Albert R. Meyer.

Evaluation

Your performance in this course is assessed using several components. These include four (4) assignments, two (2) tests, and a final examination (scheduled by the registrar). Final grades will be determined using the scheme described below, and no extra credit assignments will be provided under any circumstances.

Assignments (x4)	(7.5% each)	30%
Two tests in class (dates: Oct 6 and Nov 10)	(15% each)	30%
Final Examination		40%
Total		100%

Grades: Marks will be posted on Brightspace.

Collaboration Policy

★ There is absolutely no collaborating allowed for the tests.

Collaboration on assignments is acceptable but only at the level of discussion. When writing down the solutions, please write them down on your own. If you need help, please contact a TA or your instructor. Posting assignment solutions on discussion boards before the due date and time is also prohibited.

Important Considerations

Late assignments are not accepted. Assignments submissions are handled electronically (i.e., through Brightspace) and there is no "grace period" with respect to a deadline - an assignment submitted even one minute **after the deadline is late** and will **receive a mark of zero**. Any discrepancy in marks needs to be addressed within a week from the time the marks are posted. Students must first discuss with the TA, and if unable to resolve the situation, discuss with the instructor. After a week, all posted marks will be considered final.

Technical problems do not exempt you from this requirement, so if you wait until the last minute and then have issues with your connection, you will still receive the penalty. Consequently, you are advised to

- periodically upload your progress (i.e., upload your progress at least daily),
- attempt to submit your final submission at least one hour in advance of the due date and time.

Students with an **illness** during the span of time a midterm is offered might be granted an exemption **only if they provide a copy** of the [Carleton University Self Declaration Form](#). The weight of the midterm will then be applied to the final exam mark. Furthermore, because assignments are posted well in advance of their due dates, **illness does not excuse a student from completing an assignment**. No provision is made for missed assignments, and no extra credit assignments will be available.

Additional Notes

In addition to the time spent attending lectures, students can expect to spend **at least nine (9) hours per week** on this course. Students are responsible for all course materials, including lecture notes, and all materials discussed in class and on any of the official discussion boards.

Students are asked to pose all questions related to course content using **the official discussion board on Brightspace**; students should not email the instructor directly unless the question contains **confidential information** or is of a personal nature.

The instructor will attempt to answer every student email received **within three business days** of the time the message was received, unless the email requests information already posted on Brightspace or in the course outline. To ensure that all announcements are received, students are expected to check their email on a daily basis.

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>. All SCS computer lab and technical support information can be found at: <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.

Undergraduate Academic Advisor

The Undergraduate Advisor for the School of Computer Science is available in Room 5302C HP, by telephone at 520-2600, ext. 4364 or by email at scs.ug.advisor@carleton.ca.

The undergraduate advisor can assist with information about prerequisites and preclusions, course substitutions/equivalencies, understanding your academic audit and the remaining requirements for graduation. The undergraduate advisor will also refer students to appropriate resources such as the Science Student Success Centre, Learning Support Services and the Writing Tutorial Services.

COVID-19 Policies

It is important to remember that COVID is still present in Ottawa. The situation can change at any time and the risks of new variants and outbreaks are very real. There are [a number of actions you can take](#) to lower your risk and the risk you pose to those around you including being vaccinated, wearing a mask, staying home when you're sick, washing your hands and maintaining proper respiratory and cough etiquette.

Feeling Sick? Remaining vigilant and not attending work or school when sick or with symptoms is critically important. If you feel ill or exhibit COVID-19 symptoms do not come to class or campus. If you feel ill or exhibit symptoms while on campus or in class, please leave campus immediately. In all situations, you must follow Carleton's [symptom reporting protocols](#).

Masks: Carleton has paused the [COVID-19 Mask Policy](#), but continues to strongly recommend masking when indoors, particularly if physical distancing cannot be maintained. It may become necessary to quickly reinstate the mask requirement if pandemic circumstances were to change.

Vaccines: Further, while proof of vaccination is no longer required as of May 1 to attend campus or in-person activity, it may become necessary for the University to bring back proof of vaccination requirements on short notice if the situation and public health advice changes. Students are strongly encouraged to get a full course of vaccination, including booster doses as soon as they are eligible, and submit their booster dose information in [cuScreen](#) as soon as possible. Please note that Carleton cannot guarantee that it will be able to offer virtual or hybrid learning options for those who are unable to attend the campus.

All members of the Carleton community are required to follow requirements and guidelines regarding health and safety which may change from time to time. For the most recent information about Carleton's COVID-19 response and health and safety requirements please see the [University's COVID-19 website](#) and review the [Frequently Asked Questions \(FAQs\)](#). Should you have additional questions after reviewing, please contact covidinfo@carleton.ca.

University Policies

Full academic regulations are found in the University's calendar (<http://calendar.carleton.ca/undergrad/regulations/academicregulationsoftheuniversity/>) Some excerpts are below.

Academic Integrity

Every student should be familiar with the Carleton University student academic integrity policy. If you have been accused of breaching the Academic Integrity Policy, your Faculty Dean will inform you by email and in writing of the nature of the charge, the evidence against you, the procedures to be followed. For details on the procedure and policy, see <https://carleton.ca/registrar/academic-integrity/>

Requests for Academic Accommodation

You may need special arrangements to meet your academic obligations during the term. For an accommodation request, the processes are as follows:

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. Visit the PMC website: <http://carleton.ca/pmc>

Religious Obligations

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 <https://carleton.ca/equity/focus/discrimination-harassment/religious-spiritual-observances/>

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 the Equity Services website: <http://carleton.ca/equity/wp-content/uploads/Student-Guide-to-Academic-Accommodation.pdf>

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 its 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: <http://carleton.ca/sexual-violence-support>

For more information on academic accommodation, please contact the departmental administrator or visit: <http://students.carleton.ca/course-outline>
