

People

Instructor	Prosenjit (Jit) Bose (contact info)	Office Hours: TBD
TA	Details of TA for this course will be posted when the course starts	Office Hours: TBD

Course Information

This is going to be a Hyflex course. This means that students can choose to attend lectures in person or online. The lectures will be recorded as well and posted on Brightspace. These are uncertain times with covid, as such, please be aware that there is a possibility that the course may revert back to completely virtual mid-semester. In the first lecture, I will review the course outline, discuss the format of the course, etc.

Class Time	Days: Monday & Wednesday Time: 18:05 - 19:25
Class Location	Building: AT Room: 102
Virtual Class	Zoom link will be posted on Brightspace
Course Website	https://brightspace.carleton.ca

Course Description

This course is an advanced course on the design and analysis of computer algorithms. Topics include: Randomized Algorithms, Graph Algorithms, Geometric Algorithms, Data Structures, Amortized Analysis and Approximation Algorithms (coping with NP-hard problems).

Prerequisites

COMP 3804.

Reference Textbook

There is no required textbook for this course. All of the concepts taught in the class will have many freely available online references. As new topics are introduced in class, the online references will be provided. Also, my handwritten notes will be posted online.

Evaluation

40%	Four assignments
60%	Four tests
100%	Total

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.

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.

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 ex-

ist. For more details, visit <https://carleton.ca/equity/focus/discrimination-harassment/religious-spiritual-observances/>

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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>
