

Carleton University School of Computer Science

Comp 2804

Discrete Structures II Winter

Class Schedule

Classroom:	via Zoom (link is on CUlearn)
Class Times:	Days: Mondays and Wednesdays Time: 10:05-11:25
Course Website:	The material will be placed on CUlearn.

Instructor Information

Professor	Office	Email	Office Hours
Dr. J.-R. Sack	HP 5350	sack@scs.carleton.ca	Fridays 9:00-10:00 via Zoom (link is on CUlearn) or ask for an appointment via email

Teaching Assistants

There are x TAs who are performing different duties.

T.A.	Office Hours (to be confirmed)	Via Zoom or equivalent
Denis Po	tbd	
Jason Dunn	tbd	
Karim Hurani	tbd	
Francois-Xavier Chaplain Corriveau	tbd	
Abdulaah Emin	tbd	

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 data rather than continuous data. The course presents an overview of some of the major theoretical concepts needed to analyze this type of data

Prerequisites COMP 1805 or MATH 1800, with a minimum grade of C-.

Topics covered

Counting, sequences and sums, discrete probability, basic statistics, recurrence relations, randomized algorithms. Material is illustrated through examples from computing.

Textbook (s)

- [Discrete Structures for Computer Science: Counting, Recursion, and Probability by Michiel Smid](#)
- Additional material: Discrete Mathematics and its Applications, by Rosen. This book contains a large number of exercises as well as solutions. We used to use this book for COMP 1805, so you may still have an old copy, or you may borrow a copy from a friend.

Evaluation

Students will be evaluated in this course according to the following measures.

Component	Weight	Due Dates (estimated – final dates as per announcements)
Assignment 1	10%	February 7 th 23:59
Assignment 2	10%	February 28 th 23:59
Assignment 3	10%	March 14 th 23:59
Assignment 4	10%	March 28 th 23:59
Assignment 5	10%	April 11 th 23:59
Final Exam	50%	Tbd by central scheduling

Assignments will be submitted online in pdf via CU-learn (details to be provided by me or a TA). Typed assignments are preferred. Figures may be drawn and scanned in. It is your responsibility to ensure that the quality of the pdf is good so that the TAs can read them easily. Scanners are accessible in many locations on Campus. Pictures taken with mobile devices must be of top quality.

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 a mark of zero. Consequently, you are advised to:

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

Final Exam Note

The final exam will be scheduled by the University.

Assignments

Late assignments will not be accepted. Late is after the deadline specified.

Collaboration Policy

(on class-level; see also university rules below)

Students are encouraged to collaborate on assignments, but at the level of discussion only. When writing down the solutions, students must do so in their own words.

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 undergraduate_advisor@scs.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 Writing Tutorial Services.

SCS Computer Laboratory (may be closed due to Corona)

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 support@scs.carleton.ca.

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

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 unauthorized 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.

Unauthorized 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.

Medical Certificate

The following is a link to the official medical certificate accepted by Carleton University for the deferral of final examinations or assignments in undergraduate courses. To access the form, please go to <http://www.carleton.ca/registrar/forms>