COMP 2804B – Winter 2021
Discrete Structures II

Course Information
Classroom: Online via Zoom (link on cuLearn)
Class times: Tuesdays & Thursdays, 11:30am – 1:00pm
Course Website: https://culearn.carleton.ca/moodle/course/view.php?id=160445

Instructor
Matthew Holden (matthew.holden@carleton.ca)
Office Hours Time: Tuesdays & Thursdays 1:00pm – 2:00pm (or by appointment)
Office Hours Location: Online via Zoom (link on cuLearn)

Teaching Assistants
TBD

Course Calendar Description
A second course in discrete mathematics and discrete structures. Topics include: counting, sequences and sums, discrete probability, basic statistics, recurrence relations, randomized algorithms. Material is illustrated through examples from computing.

Topics Covered
- Counting
- Sequences and sums
- Discrete probability
- Basic statistics
- Recurrence relations
- Randomized algorithms

Prerequisites
Prerequisite(s): COMP 1805 with a minimum grade of C-, or permission of the School of Computer Science.

Course Format
This course will use a blended online format for delivery. Course content will be delivered primarily through pre-recorded videos. Scheduled class times may be used for supplementary materials. It is expected that students have watched the video(s) prior to the corresponding class. Live classes will be accessible through cuLearn and will be recorded.

Required Textbook(s) and Other Resources

This course will use Poll Everywhere, Carleton University’s tool for in-class polling. See here for details: https://carleton.ca/edc/pollev/.

Assessment Scheme
Students will be evaluated in this course according to the following scheme.

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
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<tbody>
<tr>
<td>Assignments (5)</td>
<td>50% (10% each)</td>
</tr>
<tr>
<td>Final Exam</td>
<td>50%</td>
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</tbody>
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Assignments
Assignments are to be completed individually. High-level discussion of assignment work with others is acceptable, but students must write their solutions in their own words. Copying of assignments is NOT allowed. Assignments must be submitted electronically via cuLearn. Details, dates, and submission procedures for each assignment will be posted on cuLearn.

Final Exam
The final exam will be scheduled by Scheduling and Examination Services.

Important Considerations
If you are unsure of the expectations regarding academic integrity (e.g. how to use and cite references, how much collaboration with classmates is appropriate), ask your instructor beforehand. Sharing assignment or quiz specifications or posting them online (to sites like Chegg, CourseHero, OneClass, etc.) is 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. Penalties for such offences can be found on the ODS webpage: https://science.carleton.ca/academic-integrity/.

Late assignments are not accepted. Assignment submissions are handled electronically (i.e. through cuLearn) 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. 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: (1) periodically upload your progress (e.g. upload your progress at least daily) and (2) attempt to submit your final submission at least one hour in advance of the due date and time.

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.
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**

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 support@scs.carleton.ca.

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**University Policies**

For information about Carleton's academic year, including registration and withdrawal dates, see [Carleton's Academic Calendar](https://carleton.ca/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](https://carleton.ca/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](https://carleton.ca/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](https://carleton.ca/pmc) 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](https://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.