

# Discrete Structures II (COMP 2804, Section B)

Fall 2020

**Instructor:** Michiel Smid

**Office:** Herzberg Building 5125C. (Note that it is unlikely that we are allowed to enter Herzberg.)

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**Course webpage:** <http://cglab.ca/~michiel/2804.html>

## Lectures:

- Official meeting times: Wednesday and Friday 16:05 - 17:25.
- There won't be live lectures. Instead, links to prerecorded video lectures will be posted on the course webpage.

**Course objectives:** 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 with a minimum grade of C-, or permission of the School of Computer Science.

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

## Grading scheme:

- 4 assignments: 25%
- midterm: 25%
- final exam: 50%

**Important dates (assignments due dates, midterm format and final exam format):** These will be posted on the course web page.

**Academic Integrity (New—Please Read):** As of 2020, there are new penalties in place for academic integrity violations. These will be issued by the Associate Dean (Undergraduate Affairs) of Science to students who copy, in whole or in part, work they submit for assignments.

- First offence, first-year students (< 4.0 credits completed): No credit for assessment(s) in question, or a final grade reduction of one full letter grade (e.g., A- becomes B-), whichever is a greater reduction.
- First offence (anyone else): A grade of F in the course.
- Second offence (anyone): A grade of F in the course and a one-term suspension from studies.
- Third offence: Expulsion from the University.

Note: While these are the standard penalties, more severe penalties may be applied when warranted.

For more information, go to <https://science.carleton.ca/academic-integrity/>

**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](mailto:undergraduate_advisor@scs.carleton.ca). The 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:** Carleton University is committed to providing access to the educational experience in order to promote academic accessibility for all individuals. Information on how to apply for academic accommodation can be found at <https://students.carleton.ca/course-outline/>