

COURSE OUTLINE
SC/MATH 1019M 3.00 - WINTER 2020
DISCRETE MATHEMATICS FOR COMPUTER SCIENCE

BASIC INFORMATION

Instructor: John Machacek
Email: machacek@yorku.ca
Office: 2025 DB (Victor Phillip Dahdaleh Building)
Office hours: TBA

Classroom: CLH D (Curtis Lecture Halls)
Days and Times: Tuesday & Thursday at 10:00am
Textbook: Kenneth H. Rosen, *Discrete Mathematics and Its Applications*, McGraw-Hill, 8th Edition (earlier edition also ok)
McGraw-Hill Connect: <https://connect.mheducation.com/paamweb/index.html#/registration/signup/machacek-w2020>

Course description: Introduction to abstraction. Use and development of precise formulations of mathematical ideas. Informal introduction to logic; introduction to naive set theory; induction; relations and functions; big O-notation; recursive definitions, recurrence relations and their solutions; graphs and trees

The plan is to cover material from the text book.

- Chapter 1: 1.1, 1.3 - 1.8
- Chapter 2: 2.1 - 2.5
- Chapter 3: 3.2
- Chapter 5: 5.1 - 5.3
- Chapter 8: 8.1 - 8.3
- Chapter 9: 9.1, 9.3 - 9.5
- Chapter 10: selected topics
- Chapter 11: selected topics

Prerequisites: SC/MATH 1190 3.00, or two 4U Math courses, including MHF4U (Advanced Function).

Course credit exclusions: LE/EECS 1028 3.00, SC/MATH 1028 3.00, SC/MATH 2320 3.00.

GRADES AND DATES

Grades will be determined by the following scheme with final grade assigned according to [York University's grading scheme](#).

McGraw-Hill Connect Homework	15%
Test 1	20%
Test 2	20%
Final exam	45%

There will be homework assignments online using McGraw-Hill Connect. The due dates for the homework assignments will match dates of tests on the relevant material. The two in class tests will be on the following dates. The tests will be 70 minutes.

Test 1	Feb. 6
Test 2	Mar. 19

The date of the final exam will be announced at a later time. The final exam will be during the final exam period April 7-25. The Final Exam will be 2 hours long. Students should be aware the **important dates** listed by the registrar's office. These important dates include add/drop and financial deadlines.

COURSE POLICIES

Missed or late homework: Homework is completed online using McGraw-Hill Connect Homework. Late homework is deducted 10% per hour late. Students are encouraged to start their work on homework early.

Missed tests: Students with a documented reason for missing ONE test, such as illness, compassionate grounds, etc., which is confirmed by supporting documentation (e.g., doctor's letter) may request accommodation from the Course Instructor in the form of transferring the weight of the missed test to the final exam.

Missed final exam: The instructor must be notified by email no later than 24 hours after the missed final exam. To make up the final exam, an Attending Physician's Statement (APS) must be completed by the student's health provider, and a clear photo or scan of the APS must be emailed to the instructor within 48 hours of the missed exam. The APS form can be downloaded from <http://myacademicrecord.students.yorku.ca/deferred-standing>. No other form of doctor's note will be accepted. The student must also complete and submit the Final Exam/Assignment Deferred Standing Agreement form within one week after the missed final exam. If the APS meets the above requirements the instructor will sign the deferred standing agreement and the student will write an exam set by the Department of Mathematics and Statistics. If, however, the APS does not meet the above requirements, there will be no agreement to deferred standing and the student must petition their home Faculty. If the petition is successful, the student will have the opportunity to write an exam at a date the instructor chooses within the window handed down by the petitions committee. Complete details, information & deadlines for this process can be found at <http://myacademicrecord.students.yorku.ca/deferred-standing>.

Academic Integrity: All Students are Expected to Engage in Academically Honest Work Academic integrity benefits everyone in our community. It not only helps you reach the real goal of this class-learning, but also allows for the university and program to be perceived positively by others. When students are dishonest, they

lose out on valuable learning that will help them perform well in their career. It can also negatively impact all of the students in the program and at the institution by creating negative mindsets which may result in fewer outside learning opportunities for students. Academic dishonesty is any attempt by a student to gain academic advantage through dishonest means or to assist another student with gaining an unfair advantage. Academic integrity is important regardless of whether the work is graded or ungraded, group or individual, written or oral. Dishonest acts are major academic offences and carry serious penalties, ranging from a failing grade on the plagiarized work to expulsion from the university. For more details, see [York's Academic Honesty Policy](#) and information on [Academic Integrity for Students](#).