

MAT 2348, *Discrete Mathematics* — Syllabus (winter 2015)

Teacher: Marc Bagnol

Classroom: MCD 121 (*MacDonald Hall*, 150 Louis Pasteur)

Schedule. The course takes place on Mondays at 8:30–10:00 and Thursdays at 10:00–11:30 in room MCD 121 of *MacDonald Hall*.

Prerequisite. MAT1341, (MAT1348 or MAT1325 or MAT2362 or MAT2141).

Content. Quick review of: sets, functions, relations, induction, basic counting techniques. An in-depth treatment of recurrence relations, generating functions, and principle of inclusion-exclusion. Aspects of graph theory.

Office hours. You can meet me in KED B07A (585 King Edward, basement) for questions or difficulties, on Tuesdays and Fridays 10:00–11:30, or by appointment.

Website. There will be a webpage of the course (address to be provided soon) where you'll find a summary of the course, assignments and any other relevant material.

Manual. The reference for this course is “Ralph Grimaldi, *Discrete Combinatorial Mathematics*”, 5th edition. Getting your own copy is *optional*: exercises will be provided and the book will be available at the department's library. Any sort of “*solution manual*” is not necessary nor advised.

Evaluation. There will be four assignments, a mid-term test and a final exam. The test will be held in the classroom, 80 minutes, on February 26th. The final exam lasts 3 hours, the date is determined by the university.

Your final grade is computed with the following weighting: 10% assignments, 30% test, 60% exam. You must score at least 50% on the exam to pass the course.

No overdue assignments will be accepted. In case of *justified* absence, the test weighting will be reported to the final exam.

Warnings.

- Cheating entails very harsh penalties, ranging from a grade of F in the course to expulsion from the University.
- Chatting and use of cellphones during classes are obviously not allowed. Make sure your cellphone is turned off during classes.
- Students may not enter after 20 minutes from the beginning of a test and must present their student cards at all exams.
- There will be no calculators allowed on exams.