



## MTH 309D: Discrete Mathematics

CLASS: DOOLY 200, MoWeFr 11:15–12:05

FINAL: DOOLY 200, MAY 2, 2018, 11:00–13:30

**Textbook:** Kenneth Rosen's *Discrete Mathematics and Applications*, seventh edition.

**Content:** The tentative outline is

- Logic: 2 weeks
- Induction: 1 week.
- Modular arithmetics: 4 weeks.
- Graph theory: 4 weeks.
- Elementary probability *or* elementary combinatorics: 2 weeks.

**Grading policy:**

- Three exams (two midterms and one final). The final weighs double.
- Makeups will be given only in case of documented medical excuse. Please inform me via email.
- Homework will be posted weekly on my website (except for test weeks). Handing in the solution is not compulsory, but strongly recommended. Homework will be collected on Fridays; all pages should be stapled together; late homeworks will not be accepted. Solving and understanding the feedback is the best preparation for midterms.
- Class participation and homework play an important role in determining final grades, especially in borderline cases.
- Cooperation in homework is allowed, as long as you indicate it clearly on top. (e.g. “Solved exercise 2 together with Luigi and discussed the solution of exercise 4 with Mario”.)
- The usual UM honor code applies.

**General rules:**

- During class, cell phones, tablets, and computers must be put away. Questions and feedback are always welcome.
- Presence at office hours is not compulsory, but recommended. Showing up by the dozen the day before the test is not efficient; please consider coming by when you have the first doubts. Plan ahead!
- Tests are designed to cover the material explained in class (you are expected to keep track of the topics presented.) If I never mentioned it in class, it's not going to be on the test (even if it's in the book.) In contrast, what I covered in class but is not in the book, *can* appear in the test.
- One goal of this course is to learn mathematical reasoning; to this end, test questions are *not* going to be an exact replica of the exercises discussed in the preparation.

With this, I wish you a lovely Spring semester here at The U!

Bruno Benedetti  
Assistant Professor