MAT 145 - Combinatorics

Lectures: MWF 12:10pm–1:00pm, Cruess Hall 107
Instructor: Luis Rademacher
Office: MSB 2228
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Web page: Go to http://www.math.ucdavis.edu/~lrademac/, then “Teaching”, then “Au16”.
Office hours by instructor: Tue 2:00pm–3:00pm, Wed 2:30–3:15pm or by appointment.
TA: Patrick Weed.
TA’s office: MSB 2131.
Office hours by TA: Mon 2-3pm, Thu 1-2pm.


Other optional books:
• Discrete Mathematics and its Applications, Rosen.

Prerequisites and expectations
MAT 21C or equivalent is a pre-requisite. If in doubt, please ask me. You are expected to work intensively outside the classroom solving exercises, reading the book, thinking about the theorems, etc. The most important thing is what YOU learn. Mathematics is fun and pretty, try to get the material in your soul! Rote memorization of facts is useless and you are expected to think about the material everyday. It is easy to fall behind, please be careful! I am here to help you and I hope you enjoy the course.
About the course
The course is not superficial: The course demands basic mathematical maturity and will involve proofs.

Topics (tentative)
Chapters 1–4 and 7–12.

Grading (tentative)
Homework every one to two weeks. No late homework will be accepted. For homework, discussion is allowed, but every student must write and submit his or her own solutions, and include an explanation of any such collaboration. Looking for solutions from external sources (books, the web, etc.) is prohibited.

Two midterms in class (10/14 and 11/9) and one final exam (official exam schedule: Dec 7, 6pm). There are no makeup midterm exams, instead I am dropping the lowest midterm score to compensate for possible problems or emergencies.

Formula (tentative): 20% homework, 40% midterms (lowest of the two midterms is dropped), 40% final exam.