

**Math 184A: Fall 2017**  
**Syllabus**

**Instructor:** Brendon Rhoades

**Instructor's Email:** bprhoades@math.ucsd.edu

**Instructor's Office:** 7250 APM

**Instructor's Office Hours:** 10:00am-11:00am, MWF or by appointment

**Lecture Time:** 11:00-11:50pm, MWF

**Lecture Room:** B-210 MANDE

**TAs:** Daniël Kroes and Kyle Meyer

**TA's Emails:** dkroes@ucsd.edu and kpmeyer@ucsd.edu

**Discussion Times:** 8:00-8:50am, Tu (A01), 9:00-9:50am Tu (A02), 10:00-10:50am Tu (A03), 11:00-11:50am Tu (A04)

**Discussion Room:** 5402 APM

**Final Exam Time:** Tuesday, 12/12/2017, 11:30am - 2:29pm

**Final Exam Room:** To Be Announced

**Course Description:** This is a first course in enumerative combinatorics. Enumeration of combinatorial structures. The pigeonhole and bijection principles. Inclusion-exclusion. Ordinary and exponential generating functions.

**Prerequisites:** Math 109 or Math 31CH.

**Textbook:** *A Walk Through Combinatorics* by Miklós Bóna.

**Grading:** Grades will be calculated based on homework assignments given roughly once per week, two midterm exams held in class, and a final exam. Homework turned in after 5:00 pm PST on the day that it is due will not be accepted for any reason, but your lowest homework score will be dropped for the purposes of calculating your final grade. Homework must be handed in to the dropbox in the basement of APM. The weighting is as follows:

Homework: 25%

Midterm 1 (in lecture, 10/20/2017): 20%

Midterm 2 (in lecture, 11/17/2017): 20%

Final Exam (location TBA, 12/12/2017, 11:30am - 2:29pm): 35%

**Midterm Policies:** You must bring a blue book to each midterm. No electronic devices are allowed on midterms and any collaboration on midterms is strictly forbidden. If you perform better on the final exam than on a midterm, the weight of that midterm will be transferred to the final exam. In particular, if you miss a midterm for any reason, that midterm will not contribute to your final score and your final exam weight will be increased by the amount of that midterm. No make-up midterm exams will be given. Each midterm will

contain an example from the lecture and a question from the homework.

**Final Exam Policies:** You must bring a blue book to the final exam. No electronic devices are allowed on the final exam and any collaboration on the final exam is strictly forbidden. If you need to miss the final exam because of an emergency of the direst sort (death in the family, severe illness, etc.), inform the instructor; you will get an incomplete in the course and have to take a final the following quarter (Winter 2018). The final will contain an example from the lecture and a question from the homework. *If you do not take the final exam on 12/12/2017 at 11:30am - 2:29pm for any other reason, you will get an F in the course.*