

**Math 154: Discrete Mathematics & Graph Theory**  
**Winter 2017**  
**Syllabus**

**Instructor:** Brendon Rhoades

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

**Instructor's Office:** 7250 APM

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

**Lecture Time:** MWF 1:00-1:50 pm

**Lecture Room:** 109 CENTR

**Textbook:** *Discrete Mathematics: Elementary and Beyond* by L. Lovász, J. Pelikán, and K. Vesztegombi

**TAs:** Michelle Bodnar and Daniël Kroes

**TAs' Email:** mbodnar@ucsd.edu and dkroes@ucsd.edu.

**TAs Offices:** 6434 APM (M. Bodnar) and 6414 APM (D. Kroes).

**TAs' Office Hours:** TBA

**Discussion Times:** 4:00-4:50 pm M (A01), 5:00-5:50 pm M (A02), 6:00-6:50 pm M (A03)

**Discussion Room:** 2206 WLH

**Final Exam Time:** 11:30 am - 2:29 pm, 3/24/2017

**Final Exam Room:** TBA

**Course Description:** Basic concepts in discrete mathematics and graph theory. Combinatorial tools, structures in graphs. Properties of graphs and applications in basic algorithmic problems.

**Prerequisites:** A grade of at least C- in Math 109 or Math 31CH or consent of the instructor. If you are unsure about whether your background is sufficient for this class, please talk with the instructor as soon as possible.

**Grading:** Grades will be calculated based on homework assignments given roughly once per week, two midterm exams held in class, and a final exam. The weighting scheme is as follows.

- Homework: 25%
- Midterm 1: 20% (in lecture, 2/3/2017)
- Midterm 2: 20% (in lecture, 3/3/2017)
- Final Exam: 35%

**Homework Policies:** Homework must be submitted to the basement of the APM building. Write your discussion section number on your homework assignment. *Homework turned in after 5:00 pm on the day that it is due will not be accepted for any reason.* Your lowest homework score will be dropped when calculating your final grade. Collaboration on homework assignments is both permitted and encouraged, but your submitted assignments must be written in your own words.

Your solutions must be written in English sentences (with subjects, verbs, punctuation, etc.) and your assignments must be clearly legible. If you are concerned about your handwriting, it may be in your best interest to type up your assignments (it's never too early in your mathematical career to learn L<sup>A</sup>T<sub>E</sub>X!).

**Midterm Policies:** Electronic devices and collaboration are both strictly prohibited on midterm exams. The midterms are closed book and closed notes. Each midterm will contain an example from class and a problem from the homework. If your performance on the final exam is better than your performance on one of the midterms (including the case where a midterm is not taken), the percentage score on the final will replace the percentage score for that midterm. No make-up midterms will be given. If you want to request a regrade for a midterm (or any portion thereof), you must make this request by the end of the class period in which that midterm was handed back.

**Final Exam Policies:** Electronic devices and collaboration are both strictly prohibited on the final exam. The final is closed book and closed notes. The final will contain an example from class and a problem from the homework. 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 before the final. If your reason is deemed sufficiently dire, you will get an incomplete in the course and will have to take the final exam the following quarter (Spring 2017). *If you do not take the final exam on 3/24/2017 at 11:30 am - 2:29 pm for any other reason, you will get an F in the course.*