

Math 108, Winter quarter 2018

Instructor: Gabriel Herczeg

Email: gherczeg@math.ucdavis.edu

Office Hour and Location: Monday 4:15 - 5:15, MSB 2149. Please arrive within the first 15 minutes of office hours or send me an email letting me know you're coming later.

TA:

Graham Hawkes

Email: hawkes@math.ucdavis.edu

Office Hour and Location: Tuesday 4:30 - 5:45 , MSB 2139.

Reader:

Adam Kagel

Email: ackagel@ucdavis.edu

Office Hour and Location: TBA, TBA.

Welcome to Math 108!

The primary goal of math 108 is to teach students the fundamentals of mathematical thinking and clear writing of mathematical arguments. This is a beginner's exposure to the notion of proof, to the language used by mathematicians (e.g., implications, quantifiers, notion of contradiction, induction). Most of the explanations and practice will use examples from basic set theory, basic combinatorics, and algebra.

Mastery of this course enhances the ability to write clear well-organized scientific arguments. Mastery of this course also supports the development of clear analytical thinking.

Class Hours

Lecture meets Monday, Wednesday, and Friday, 11:00 - 11:50 AM in Hutchison 115.

Section A01 meets Thursday, 6:10 - 7:00 PM in Chem 166.

Section A02 meets Thursday, 7:10 - 8:00 PM in Chem 166.

Class meets Monday, Wednesday, and Friday, 11:00 - 11:50 AM in Hutchison 115.

Textbook

A Transition to Advanced Mathematics, 8th edition, by D. Smith, M. Eggen, and R. St. Andre.

Approximate Schedule of Topics

An approximate schedule of topics can be found at:

https://www.math.ucdavis.edu/courses/syllabus_detail?cm_id=99

Homework

Homework will be assigned weekly and will consist of ~ 10 problems from your textbook. This is an extremely important component of the course. I expect that most of you will

learn more from working through homework problems on your own, and/or in study groups (which I strongly encourage) than you will learn in lecture.

However, due to the large size of the class, grading individual homeworks is impractical, and homework will not be collected. To keep you accountable, one or two homework problems will be selected for a weekly quiz.

Quizzes

Every Friday (except the first), the last ~ 25 minutes of class will be reserved for a weekly quiz. The quiz will consist of one or two problems selected from the homework. **There will be no makeup quizzes**, either before or after the regular quiz time. You may miss one quiz for any reason without penalty. Additionally, I will drop the lowest score from among the quizzes you do take. If you have to miss a quiz due to a medical emergency or official university event, email me **with appropriate documentation** and we can discuss how to proceed.

Regrades

Requests for regrades should be submitted electronically to the TA that graded your quiz with me in CC. Your message should include a succinct explanation of why you believe you received the wrong grade, and a clearly legible photo or scan of your quiz must be attached. All regrades must be submitted within one week after the quiz was returned. Most regrade requests will not result in a change of grade. If you do request a regrade, your score may be raised **or lowered**.

Final

Your final is scheduled for Friday, March 23rd, 1:00 - 3:00 PM in Hutchison 115. You will not be permitted to use calculators or cell phones. The final will be cumulative.

Grading

Course grade = 60% quizzes + 40% final exam.

Class Website

The class website may be accessed on Canvas.

Communicating with me

The best way to contact me is via email. All messages should be sent to gherczeg@math.ucdavis.edu or to my personal address Gabe.Herczeg@gmail.com. **Do not message me on canvas.** Please be sure to include "Math 108" in the subject line so I know to respond quickly.

Academic Dishonesty

Academic dishonesty of any form will be reported to the Office of Student Support & Judicial Affairs for appropriate action.