

MATH 108 Winter 2019: Intro to Abstract Math

MWF 3:10-4:00 – Wellman 6 (section B)

MWF 9:00-9:50 – Chemistry 166 (section C)

Instructor: Robert Krone

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Office: MSB 3145

Office Hours: Mon 1-2, Wed 11-12 (or by appointment)

TA (Section B): Alto Senda

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TA (Section C): Joseph Pappé

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Course Topics: The required text for the course is *A Transition to Advanced Mathematics* by D. Smith, M. Eggen, R. St. Andre. The most recent edition is the 8th, but older editions are fine. We will cover the material in Chapters 1-6:

- Basic logic
- Basic proof methods
- Set theory
- Induction proofs
- Relations
- Graph theory
- Functions
- Finite sets
- Infinite sets
- Groups
- Rings and fields

Course Website: The main site is <http://rkrone/MAT108/index.html>.

Grades will be posted on Canvas: <https://canvas.ucdavis.edu/courses/311266>

Homework: There will be proof-based problem sets assigned weekly, due on Fridays in lecture. The problems will be taken from the textbook. Problem sets must be typed with \LaTeX and printed out to be turned in. You may collaborate with groups of up to four to work on the problems, but each student must write up and submit their answers individually. The problem sets are worth 50% of the course grade.

Exams: There will be one midterm exam during the semester, and a final exam. The midterm is 50 minutes long during lecture on Wednesday February 13 and is worth 20% of the course grade. The final exam will be a 2 hour exam during finals week (March 18-22) and is worth 30%.

Midterm Exam	February 13
Final Exam	March 18-22

No calculators or notes are permitted on exams. I will do my best to construct exam questions that avoid complicated arithmetic. Please notify me at least a week in advance if you can't attend an exam and need to take a make-up. Otherwise the only accepted reasons for missing an exam are severe illness or family emergency.

Regrade Policy: If you think that a mistake was made in grading your exam, you must notify me within one week of when the exam is returned. After that, grades will be final.

Grading Scheme: The course grade will be computed as follows:

- Midterm Exam: 20%
- Final Exam: 30%
- Problem Sets: 50%

All grades will be posted on the Canvas course website.

Extra Help:

- Please come to my office hours or the TA's for questions about the material, or for additional practice. You can send me questions about the material or homework problems by email.
- Free tutoring is available from the Student Academic Success Center (SASC). For details see: <http://success.ucdavis.edu/services/mathematics.html>.
- The STEM Café is a program on Tuesdays 4-6 hosted by the Womens Resources and Research Center (WRRC) where you can discuss math with peers and receive help from grad students and professors. STEM Café is open to all students, regardless of gender.
<https://www.math.ucdavis.edu/undergrad/stemcafe/>

Students with Disabilities and/or in need of Special Accommodations: If you have a disability or health consideration that may require accommodations, please contact the Student Disability Center (SDC) as soon as possible at <https://sdc.ucdavis.edu/>. Students with accommodations approved through SDC are responsible for contacting the course instructor well in advance to arrange accommodations, such as separate rooms and time extensions for exams.