

**AMAT 299: INTRODUCTION TO PROOFS
SYLLABUS - SPRING 2022**

Instructor: Prof. Matt Zaremsky

Course meets: MWF 10:35–11:30am in ES-143

Course Website: <http://www.albany.edu/~mz498674/teaching.html>

Email: mzaremsky at albany dot edu

Office hours: M 9:40–10:35am and F 11:40–2:00pm, in my office

1. TEXTBOOK

Richard Hammack, *Book of Proof (Third Edition)* [link].

2. COURSE DESCRIPTION

“Introduction to the methods of higher mathematics, with emphasis on how to read, understand, discover, and write proofs. Topics include basic logic, sets, functions, relations, mathematical induction, countable and uncountable sets, and elementary number theory. This course will require a significant amount of written and oral presentation.”

3. PRE- AND CO-REQUISITES

Prerequisites: Mathematics major; one of AMAT 113, 119, 214 or 218 with a grade of C or better. Corequisite: UUNL 299.

4. HOMEWORK/GRADING

There will be homework, a midterm exam, and a final exam. Homework will be posted on the course webpage, due every Wednesday. No late work will be accepted. The lowest homework will be dropped. Homework is worth 40% of your grade, the midterm is 25%, and the final is 30%; the remaining 5% is for “participation” (very loosely defined).

5. POLICIES

See university policies [here] (medical excuse policy), [here] (academic integrity), and the following (absence due to religious observance):

“Instructors must explicitly refer to New York State Education Law (Section 224-A) whereby campuses are required to excuse, without penalty, individual students absent because of religious beliefs, and to provide equivalent opportunities for make-up examinations, study, or work requirements missed because of such absences. Faculty should work directly with students to accommodate religious observances. Students should notify the instructor of record in a timely manner.”