Course description: This course is an introduction to rigorous mathematical proofs. Topics will be drawn from various areas of discrete mathematics: formal logic, number theory, sequences, set theory, functions, relations, and combinatorics. It is vital to attend every lecture and take careful notes. Some lecture material does not appear in the textbook.

Web: http://www.ma.utexas.edu/users/lomeli/m325k

Office Hours: M 2 – 3pm, WF 11 – 12am, or by appointment.

Textbook: *Discrete Mathematics: An Introduction to Mathematical Reasoning, Brief Edition* by Susanna S. Epp. The course will cover approximately the bulk of chapters 1, 2, 3, 5 and 7 in that book and selected material from chapters 4, 6, 8 and 9.

Homework: To do well in this course, you need to come to the lectures and do –and understand– the homework problems. Homework will be collected once per week in class, usually on Wednesday. You will be responsible for knowing the material in the homework assignments, and for being able to apply this knowledge during exams. Selected problems will be graded and then returned during lecture. Students are encouraged to discuss all aspects of the course with each other. However, each student should write their own solutions to the problems. Some homework grades will be dropped at the end of the semester. You need to start homework early: no late homework will be accepted. Illegible homework will not be graded. All work should be shown using correct notation and no credit will be given for unsupported answers. Homework must be stapled and in logical order.

Exams: There will be three midterm exams and a comprehensive final.

- The midterm exams will be given in the following (tentative) dates: Friday, September 22, Friday, October 20, and Friday, November 17.
- There will be no make-up exams. If you are injured or sick during the scheduled midterm exam, please bring a note from your doctor or a letter from your primary care provider, verifying your illness. The lecturer is understanding of absences due to illness or injury, but the degree to which he can be flexible is entirely at his discretion.
- All exams are cumulative.
- The final exam will be on Thursday, December 14, 2:00-5:00 pm.
- Please bring your UT ID card to each exam.
Grade determination:  Each midterm exam is worth 100 points.
- Homework counts for a total of 100 points. Several scores will be dropped and only eight will be used to determine the homework grade.
- The final is worth 200 points.
- This gives a total of 600 points for the course and from this number a letter grade will be determined.
- The sum of all the points will determine your course letter grade as follows:
  \[ A = [540, 600], \ A- = [513, 540], \ B+ = [486, 513], \ B = [459, 486], \ B- = [432, 459], \ C+ = [405, 432], \ C = [378, 405], \ C- = [351, 378], \ D+ = [324, 351], \ D = [297, 324], \ D- = [270, 297], \ F = [0, 270]. \]
- Depending on the results of each exam, grades might be adjusted upward with a method announced later.
- Class attendance will not be used in determining the grade.

Drop deadline: November 7 is the last day an undergraduate student may, with the deans approval, withdraw from the University or drop a class except for urgent and substantiated, nonacademic reasons. This is also the last day an undergraduate student may change registration in a class to or from the pass/fail basis.

Mental Health: The University of Texas has the following center if you need support:
Counseling and Mental Health Center
Student Services Bldg (SSB), 5th Floor
Hours: M–F 8am–5pm
(512) 471-3515 (appointments)
(512) 471-CALL (crisis line)

The University of Texas at Austin provides upon request appropriate academic accommodations for qualified students with disabilities. For more information, contact the Office of the Dean of Students at (512) 471- 6259, (512) 471-6441 TTY.