MAT 309: Introduction to Mathematical Logic, Fall 2019

Instructor
Benjamin Rossman (ben.rossman@utoronto.ca)

Teaching assistants

Please use email for personal matters only (include “MAT309” in the subject); post all other questions and comments in the course forum.

Textbook
“A Friendly Introduction to Mathematical Logic” (2nd Edition)
by Christopher C. Leary and Lars Kristiansen

Available online and at the UofT bookstore for $27.10.

Course description
This course will cover chapters 1-6 and parts of chapters 7-8 of the textbook. Topics include: first-order logic, the relationship between truth and provability, soundness and completeness theorems, Gödel’s Incompleteness Theorem, and an introduction to computability theory. Time permitting we will explore additional topics, such as the theory of real-closed fields and the zero-one law for random graphs.

Course website
http://www.math.toronto.edu/rossman/MAT309.html

Check the course website for the textbook sections to be covered in each lecture (required reading!)

Forum
https://piazza.com/utoronto.ca/fall2019/mat309h1

For all questions and comments related to the course material.

Lectures
Tuesday 2-4 and Thursday 3-4 in MP 203

Tutorials
Friday 10-11 in BA 1200
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Friday 3-4 in HA 403
Friday 4-5 in HA 401

Office hours
Tuesday 12-1 in BA 6214

Grading
25% Homework
20% Midterm #1
20% Midterm #2
35% Final exam

Midterms will take place during class hours in the usual classroom (MP 203). If you must miss an exam due to medical reasons, you must inform the instructor by email in advance (or as soon as possible) and present a doctor’s note in accordance with UofT policy.

**Homework policy**  
Homework assignments will be due *in class* on the designated due date. Late submissions will not be accepted. Each assignment will be graded based on an undisclosed few problems. Students are encouraged to work alone; collaboration is permitted, but make certain to include the name of anyone you work with.