

MAT 309: Introduction to Mathematical Logic, Winter 2018

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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 <http://piazza.com/utoronto.ca/winter2018/mat309h1/home>

For all questions and comments related to the course material.

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

Tutorials Wednesday 4-5 in BA 1240
Wednesday 5-6 in BA 1240
Friday 3-4 in HA 316
Friday 4-5 in HA 316

Office hours Thursday 4-6 (check course website for room) or by appointment

Grading 15% Homework
25% Midterm #1

25% Midterm #2
35% Final exam

Midterms will take place during class hours in the usual classroom (MP 203). Likely dates for midterms are February 6 and March 6 (to be confirmed by mid January). 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 (worth 3% of the overall grade) 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.