

Lectures

MWF	10:00-10:50	MS 569
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Lectures are optional as always, but highly recommended. There is no official extra tutorial in this class: lecture time actually is the place for discussions and questions on the material being reviewed. This means you should come prepared by having made at least a good first reading of the material anticipated for that day. Unless it is of general interest to the class, discussions on already covered material should take place in office hours.

Course Notes

Tentative Plan

- I. Basic Set Theory and Techniques
Lecture Notes on Set Theory by A. Nesin
<http://www.math.bilgi.edu.tr/courses/Lecture%20Notes/SetTheoryLectureNotes.pdf>
- II. Set Theory for the Practitioner
Lecture Notes on Set Theory by P. Dixon
<http://www.peter-dixon.staff.shef.ac.uk/teaching/STDN.PDF>

Material to be decided:

- III. Introduction to Ramsey Theory
Notes on Ramsey Theory (version of G. Taylor), by I. B. Leader
http://tartarus.org/gareth/maths/notes/iii/Ramsey_Theory.pdf
or Notes on Ramsey Theory (version of P. Russell), by I. B. Leader
<http://www.dpmms.cam.ac.uk/~par31/notes>
- IV. Forcing and Independence in Set Theory, by J. Palumbo
<http://www.math.ucla.edu/~justinpa/class/Forcing.html>

Reference Material and Additional Related Resources

1. Lecture Notes on Set Theory by B. Weiss
http://www.math.toronto.edu/weiss/set_theory.html
2. Notes on Set Theory and Topology, by S. Hurder
http://www.math.uic.edu/~hurder/math445/topology_notes.pdf
3. Metamathematics, by D. Marker
<http://www.math.uic.edu/~marker/math502f09/mm.pdf>

Credit Components

Assignments

There will be five (5) assignments worth 20%, tentatively due January 24, February 7, March 14, March 28 and April 11.

Class Participation

Class participation will be worth 10% and be based on your contributions to class discussions and to class activity in general.

Midterm Test

There will be one midterm test, worth 20% of the course. You will write it in class on February 18, 2011. No calculators or any other material are allowed.

Final Examination

There will be a two-hour final examination to be scheduled by the registrar's office. It is worth 50% of the course.