

## 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.

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## 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 Lecture Notes by F. Stephan  
<http://math.ucalgary.ca/courses/w11/PMAT415/LEC1>

### 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/math/notes/iii/Ramsey\\_Theory.pdf](http://tartarus.org/gareth/math/notes/iii/Ramsey_Theory.pdf)  
or Notes on Ramsey Theory (version of P. Russell), by I. B. Leader  
<http://www.dpmmms.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 P. Dixon  
<http://www.peter-dixon.staff.shef.ac.uk/teaching/STDN.PDF>
2. Lecture Notes on Set Theory by B. Weiss  
[http://www.math.toronto.edu/weiss/set\\_theory.html](http://www.math.toronto.edu/weiss/set_theory.html)
3. Notes on Set Theory and Topology, by S. Hurder  
[http://www.math.uic.edu/~hurder/math445/topology\\_notes.pdf](http://www.math.uic.edu/~hurder/math445/topology_notes.pdf)
4. Metamathematics, by D. Marker  
<http://www.math.uic.edu/~marker/math502f09/mm.pdf>

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## 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.