

Math 521 Spring 2018 Analysis I

- Course:** Math 521 Lecture 2
Mondays, Wednesdays, Fridays 12:05 to 12:55 p.m.
Social Sciences 6203
- Instructor:** Ed Hanson
Van Vleck B127
263-1541
edhanson@math.wisc.edu
- Office hours:** Monday 1:05 to 2:15 p.m.
Tuesday 11:30 a.m. to 1:00 p.m.
Wednesday 11:00 a.m. to 11:45 a.m.
By appointment
- Course webpage:** <http://www.math.wisc.edu/~edhanson/teaching/521s18/index.html>
- Textbook:** Rudin, W. *Principles of Mathematical Analysis*. Third Edition.

Course Overview

This course serves as an introduction to analysis, a key branch of modern mathematics. We will cover the following:

1. The real number system.
2. Metric spaces and basic topology.
3. Sequences and series.
4. Continuity.
5. Topics from differential and integral calculus.

Grading

Your course grade will be determined approximately as follows:

- Homework assignments, worth 20% of the final grade.
- Quiz, worth 5% of the final grade.
- First midterm exam, worth 20% of the final grade.
- Second midterm exam, worth 20% of the final grade.
- Final exam, worth 35% of the final grade.

The grading policy is that if you have a course average of higher than 90%, you will receive an *A*; if you have a course average of higher than 80%, you will receive at least a *B*; if you have a course average of higher than 70%, you will receive at least a *C*; and if you have a course average of 60% or higher, you will receive at least a *D*.

Homework

Homework will be assigned regularly. Obtaining a complete and thorough understanding of these problems will be essential for success in this course. Collaborating with other students on the homework is encouraged, but you must write up all proofs and solutions on your own (in other words, no copying). Failure to abide by this guideline could be construed as a form of academic dishonesty (see the section on Academic Integrity below). Late homework will generally not be accepted, though I will drop the lowest homework grade at the end of the semester.

Quiz and Exams

The quiz will be held during class on Friday, February 9. The exams will be held during class on Friday, March 9 and Friday, April 13. The final exam is scheduled for Thursday, May 10, 2018 from 7:45 to 9:45 a.m.

Prerequisites

The prerequisite for this course is either Math 341, 375, or 421.

Classroom Courtesy

There will be zero tolerance for anyone using cellphones, reading or writing text messages or emails, surfing the internet, reading newspapers, listening to headphones, etc. Each time a student is caught engaged in such behavior, I reserve the right to deduct one percentage point from their final course grade.

Additional Resources

There is a tutor (Tom Stone) who will provide walk-in help for students taking this course. The hours will be Mondays 2:30 to 4:30 p.m. and Tuesdays 2:00 to 4:00 p.m., and the location will be Van Vleck B205.

Academic Integrity

All students are expected to adhere to the University's academic honesty policy. In particular, you should not copy homework from another student or outside resources such as books and the internet. Failure to abide by these guidelines will result in disciplinary action in accordance with University guidelines.

Special Accommodations

Any student who has accommodations with the McBurney center or any other specific needs should notify me within the first two weeks of class.

Last updated: January 29, 2018