

Analysis II

V63.00326, Fall 2010

Instructor: Robert Kohn, kohn@cims.nyu.edu

TA: Cabral Chanang Tondji, cabral.chanang@gmail.com

Lectures: Mon/Wed 2-3:15, WWH 512, starting Sept 8

Recitations: Fri 9:30-10:45, 261 Meyer, starting Sept 17

Prerequisite: Analysis I.

Requirements: There will be regular homework assignments, two midterm exams, and a final exam. They will be weighted equally (1/4 HW, 1/4 each midterm, 1/4 final exam).

Office hours: Professor Kohn's office hours are tentatively Mondays 5-6 and Wednesdays 3:30-4:30 (to be checked against student schedules in first class meeting). Mr. Tondji's office hours to be announced during the first week of classes.

Textbook: William Wade, *An Introduction to Analysis*, Pearson. The current edition is the 4th (hardback around \$95 from Amazon, 134 at the NYU bookstore; the ebook version is just \$55, available at the NYU bookstore and the publisher's website). It's OK if you have the 3rd edition (available from Amazon marketplace for \$30-50 dollars).

Special dates: No class Mon 10/11 (Columbus Day). The midterms will be Wed 10/13 and Mon 11/22. The last class is Wed 12/15. The final exam is Mon 12/20 (2-3:50pm).

Homework: HW will usually be assigned on Wednesday, and discussed in recitation on Friday (9 days later). Solutions will be posted soon after the HW is discussed in recitation. To count for credit, HW must be turned in by the start of the recitation where it is discussed.

Tentative Semester Plan

Wed 9/8	Start infinite sequences of functions (ch 7)
9/13, 9/15	Finish infinite sequences of functions (ch 7)
9/20, 9/22	Start Fourier series (ch 14)
9/27, 9/29	Finish Fourier series (ch 14)
10/4, 10/6	Euclidean Spaces (ch 8)
Wed 10/13	1st midterm , on material covered through 9/29
10/18, 10/20	Start convergence in R^n (ch 9)
10/25, 10/27	Finish convergence in R^n (ch 9)
11/1, 11/3	Start differentiability in R^n (ch 11)
11/8, 11/10	Continue differentiability in R^n (ch 11)
11/15, 11/17	Finish differentiability in R^n (ch 11), start integration (ch 12)
11/22, 11/24	2nd midterm 11/22 , on material covered through 11/10
11/29, 12/1	Finish integration (ch 12)
12/6, 12/8	Start fund thms of vector calculus (ch 13)
12/13, 12/15	Finish fund thms of vector calculus (ch 13)