Math 426
Fundamental Concepts of Analysis
Spring 2019

Lecturer: Bobby Wilson
Office: Padelford C-344
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Office Hours: Wednesdays 2 pm-4 pm, Thursdays 2 pm-4 pm and by appointment.

Class Times: Mondays, Wednesdays, and Fridays, 10:30 am-11:20 am in AND 010

Text: Real Analysis, Royden, 3rd Edition

Course Description: Lebesgue measure on the reals. Construction of the Lebesgue integral and its basic properties. Monotone Convergence Theorem, Fatou’s Lemma, and Dominated Convergence Theorem. Integration of series. Continuity and differentiability theorems for functions defined by integrals. Introduction to general measures and integration.

Course Website: https://sites.math.washington.edu/~blwilson/426/

Grading

(Out of 100 total points.)

Exam (70 points):
Midterm (30 points): Monday, May 6, 10:30 am -11:30 am in AND 010
Final Exam (40 points): Comprehensive, Monday, June 10, 8:30 am – 10:20 am in AND 010

Homework (30 points): 10 assignments. Homework will be available Fridays and be due the following Friday before class start.

Miscellaneous

Midterms and final exam: No notes, books, or calculators will be allowed in the exams.

Emails: When sending emails to me, please be sure to include “Math 426” in the subject line.

Etiquette: Please address me as Professor Wilson unless informed otherwise.

Deadlines: May 19, Deadline for drop or satisfactory/unsatisfactory designation.