Syllabus for Math 405: Introduction to Real Analysis
Spring 2015

Course:
Lecture: MW 1:30-2:45 pm  Rm. Kreiger 300
Section: F 1:30-2:20 pm  Rm. Kreiger 300

Lecturer: Jacob Bernstein
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Course Website: The course website is http://math.jhu.edu/~bernstein/math405. All relevant course material will be posted to this site. Blackboard will be used only for grades.

Text: The course text (on reserve in the library) is:
The Way of Analysis, Rev. Ed., by R. Strichartz, Massachusetts: Jones and Bartlett, June 2000

Homework: Weekly homework will be due Wednesday in lecture. The homework will be posted to the course website the previous week. Late work will not be accepted. There will be 10 sets assigned in total. Homework will count for 20% of the final grade with the lowest grade dropped.

Exams: There will be two in class midterm exams. The midterms will each count for 20% of the final grade. Date of the midterms: Monday, February 23 and Monday, April 6. The final will count for 40% of the final grade. Date of the final exam: Wednesday, May 13, 9am-12pm

Working Together: Working together is allowed and encouraged, however it is essential that each student write up his or her own solutions. Use of sources (i.e. other people, books, the internet) without proper attribution will be considered plagiarism.

Material to be Covered:
The Logic of Mathematical Proofs
Construction and Topology of the Real Line
Continuous Functions
Differential Calculus
Integral Calculus
Sequences and Series of Functions

Course Schedule: A (tentative) schedule may be found on the course website.