

**Syllabus for Math 416: Honors Analysis II  
Spring 2018**

**Course:**

*Lecture:* MW 1:30-2:45 pm Rm. Maryland 202  
*Section:* F 1:30-2:20 pm Rm. Maryland 202

**Lecturer:** Jacob Bernstein

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**Course Website:** The course website is <http://math.jhu.edu/~bernstein/math416>. All relevant material will be posted to this site. Blackboard will be used only for grades.

**Text:** The course text is:

*Real Analysis*, by N. L. Carothers.

**Homework:** Weekly homework will be due Friday in section. The problem sets will be posted to the course website the previous week. Late work will not be accepted. There will be 11 sets assigned in total. Homework will count for **30%** of the final grade with the lowest two grades dropped.

**Exams:** There will be **two** in class exams. Together they will count for **70%** of your final grade – the higher score will count for **40%** and the lower score for **30%**. Date of the exams: **Wednesday, March 14** and **Wednesday, May 2**. There will be no exam during the final exam period.

**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. See Academic Ethics statement on the course website for more information.

**Material to be Covered:**

- Functions of Bounded Variation
- Riemann Integral
- Fourier Series
- Lebesgue Integral

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