

**Syllabus for Math 407: Introduction to Real Analysis**  
**Fall 2017**

**Course:**

*Lecture:* TuTh 12:00-1:15 pm Rm. Kreiger 306

**Lecturer:** Jacob Bernstein

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**Course Website:** The course website is <http://math.jhu.edu/~bernstein/math407>. All relevant material will be posted to this site. Blackboard will be used only for grades.

**Text:** The course text is:

*Princeton Lectures in Mathematics II: Complex Analysis*, by E. Stein and R. Shakarchi.

**Homework:** Weekly homework will be due Thursday in lecture. The problem sets 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 **30%** of the final grade with the lowest grade 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: **Thursday, October 12** and **Thursday, December 7**. 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

**Material to be Covered:**

Complex Numbers

Cauchy's Theorem

Holomorphic and Meromorphic Functions

Entire Functions

Special Functions

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