

Fall 2015, Math 511

## Real Mathematical Analysis I

5:30–6:45 pm TR, Maybank 223

Instructor: Renling Jin, Office: 326 RSS

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Office Hour: 4:00–5:00 pm TuTh, or by appointment

**Text:** *Real Mathematical Analysis* (ISBN: 0-387-95297-7) by Charles Chapman Pugh

**Course Description:** Topics include set theory and metric spaces, topological properties, local and uniform convergence criteria, properties of continuous functions and differentiation of vector valued functions. We will cover the first 4 chapters with some omission and some of Chapter 5 if time permits.

Prerequisite: Math 411 (Advanced Calculus II).

**Grading:** There will be two midterm tests (25% each), a final exam (30%) and homework assignments (20%). Your letter grade will be assigned as follows:

90 – 100 A, 85 – 89 B+, 80 – 84 B, 70 – 79 C+, 60 – 69 C, below 60 F

Please note that NO extra work will be offered in order to lift one's grade and NO special consideration for an individual will be given for changing the weight distribution of the tests, homework, and final exam. In order to earn a good grade, one needs to perform well through entire semester.

**Important dates:**

test 1: 09/24, test 2: 11/03

final exam: 7:30–10:30 pm. Thursday, December 10

HW due: set#1 09/03, set#2 09/17, set#3 10/08, set#4 10/27, set#5 11/17, set#6 12/01,

last day to drop with a grade of "W": 10/29

first day of the class: 08/25, last day of the class 12/03

holidays and breaks: 10/20, 11/26

**Homework:** Homework exercises will be assigned at the beginning of every class. They will be collected according to the posted schedule. The instructor will grade the exercises and give points accordingly. Homework turning in late may suffer an up to 50% reduction of the original points. Students are encouraged to discuss with the instructor on other non-assigned problems from the textbook or from other sources.

**Additional help:** When you have questions and can't come to the instructor's office for help during his office hours, you should (1) discuss with and get help from your peers (but don't copy each other's homework), or (2) make an appointment with the instructor.

**Attendance Policy:** Regular attendance is required and expected. A student runs a risk of being dropped from the class if he/she is absent for two consecutive lectures without explanation. If you must miss a test, you must contact the instructor in advance as well as obtain a **documented** excuse from the **office of associate dean of students at 67 George Street**. You can leave a message with the Mathematics Department Secretary or send the instructor an e-mail message if he is not in his office.