Fall 2009, Math 511-090

Real Mathematical Analysis I

4:00–5:15 pm MW, Maybank 113
Instructor: Renling Jin, Office: 326 RSS
Phone 3–7193. E-mail jinr@cofc.edu
Office Hour: 2:00–2:50 pm MWF, or by appointment

Text: *Real Mathematical Analysis* 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: 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: 09/28, test 2: 11/04
final exam: 4:00–7:00 pm. Friday, December 11
last day to drop with a grade of "W": 10/06
first day of the class: 08/26, last day of the class 12/07
holidays and breaks: 10/12, 11/25

Homework: Homework exercises will be assigned at the beginning of every class. They will be collected once a week by, for example, the following arrangement. The exercises assigned in Wednesday and next Monday will be discussed in the following Wednesday and collected the Monday of the next week. The instructor will correct 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.

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 no copying each other's homework), or (2) make an appointment with the instructor on Monday, Wednesday, and Friday.

Attendance Policy: Regular attendance is required and expected. If you must miss a test, you must contact the instructor in advance as well as obtain a written 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.