

Math 4011/6011 Real Variables I
FALL 2009

Instructor: Dr. Ying Wang

Office: Allgood Hall N328

E-mail: ywang@aug.edu

Class Meets: Monday and Wednesday, 16:00-17:15, AHE364.

Office Hours: Monday 12:00-13:00 and 14:00-16:00, Wednesday 14:00-16:00. You will be informed of any change to these hours if any occurs. You are free to visit me in my office during these hours without an appointment. If you wish to see me outside of these hours, then let me know in person, by email, and we will set up a time.

Textbook: *A First Course in Real Analysis*, Second edition, by M.H. Protter and C.B. Morrey, Springer, 1991.

Description of the Course: A study of real number system and functions. Topics include sequences, limits, continuity, differentiation and integration.

Prerequisite: Math 2012.

Homework: I will not collect and grade the homework.

Exams: There will be three tests and the final exam. All tests will be closed book and closed notes, based on your homework and classnotes. The final will cover everything we have learned in the semester. ATTENTION! There will be absolutely no makeup tests and quizzes. If you miss a test, you will receive a grade of zero for that one. I will allow you to take a test at a time other than the class period if you inform me in advance and provide documentation in the form of a note from a coach, club sponsor, or other appropriate party.

Test 1: Wednesday, September 16

Test 2: Wednesday, October 21

Test 3: Monday, November 30

Final: 18:00-20:00, Monday, December 7

Grading: The grades in this course will be determined by tests and final exam. The breakdown of the course grade is as follows:

First Test	20%
Second Test	20%
Third Test	20%
Final Exam	40%

Your letter grade for the course will be:

90-100% A 80-89% B 60-79% C 50-59% D Below 50 F

Additional Requirements for 6011 Students: Each graduate student must study more advanced content, include reading research papers in the literature, and giving presentations of various topics from the papers you read.

Withdrawals: If you wish to withdraw before midterm (October 12), you must take the responsibility for filling out the necessary forms. I will take attendance daily and reserve the right under University policy to issue a grade of "WF" after the midterm to students who miss more than three classes.

Attendance: I will take attendance daily.

Academic Dishonesty: All students are expected to comply with the Student Code of Conduct (see the student Handbook) and the policy on Academic Honesty (see the University Catalog). Any evidence of cheating or other violations will be submitted directly to the chair of the department.

Other Policies: University policy prohibits the use of cellular phones or pagers in the classroom and requires that only those who are registered in a class may attend. Any mechanical or electronic recording of class activities must first be approved by me. If you need special accommodation due to a disability you should inform me and the Coordinator of Disability Services in the Office of Counseling and Testing.

Material to be Covered: Ideally we will cover

- 1: Proofs and Functions;
- 2: Sequences;
- 3: Limits and Continuity;
- 4: Differentiation;
- 5: Riemann Integration;
- 6: Elementary Theory of Metric Spaces.