



MAA 6306

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Fall
2005

University of Central Florida Department of Mathematics

Course Title: REAL ANALYSIS

Course Number: MAA 6306

Credit Hours: 3

Textbook: *Real Analysis* By H. L. Royden, 3rd Edition, Prentice Hall

Course Webpage: <http://www.math.ucf.edu/~jren/MAA6306>

Prerequisite: Mathematical Analysis, or MAA 5210

Time & Room:	Day	Time	Room
	Monday & Wednesday	7:30 - 8:45pm	MAP 405

Office Hours:	Day	Time
	Monday & Wednesday	2:30 - 4:30pm
	Thursday	2:00 - 3:00pm (by appointment only)

OR BY APPOINTMENT

Instructor: Name Office Phone E-mail
[Dr. J. Ren](#) MAP 202G 823-5994 jren@mail.ucf.edu

Homework: [Homework](#) problems will be assigned during lectures and will be collected on the dates announced in class and on course webpage.

Exams: There will be two tests. The dates and contents of [Tests](#) will be announced in class and on course webpage. **NO MAKE-UP TESTS WILL BE GIVEN.**

**Percentage of
Grades:**

Homework	Test 1	Test 2
40%	30%	30%

NOTE: The conversion of a numerical grade into a letter grade is done after each test or exam, and will be announced at this webpage.

Topics: *"... cover the basic materials that every graduate student should know in the classical theory of functions of a real variable and in measure and integration theory ... "* **H.L.Royden**

Set Theory

Functions of a Real Variable

Lebesgue Measure

The Lebesgue Integral

Banach Spaces

Metric Spaces

Topological Spaces

Compact and Locally Compact Spaces

General Measure and Integration