

## FALL SEMESTER 2001

### MATH 7311-1

Real Analysis I  
2:40-3:30 MWF  
Lockett 111

### PREREQUISITE

Math 4032 or equivalent

### TEXTBOOK

A. N. Kolmogorov and S. V. Fomin: *Introductory Real Analysis*. Translated and edited by R. A. Silverman, Dover, 1975

### COVERAGE

Chapter 2: Metric spaces (Sections 5, 7)  
Chapter 3: Topological spaces (Sections 11, 12)  
Chapter 4: Linear spaces (Sections 15, 16)  
Chapter 7: Measure (Sections 25, 26, 27)  
Chapter 8: Integration (Sections 28, 29, 30)  
Chapter 9: Differentiation (Sections 31, 32, 33, 34)  
Chapter 10: More on integration (Sections 35, 37)  
Supplement: Frechet derivative. Inverse and implicit function theorems

### GRADING PROCEDURE

Homework	100	pts
Two 100 pt exams	200	pts
Final exam	150	pts
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Total score	450	pts
Tentative scale	A	380-450
	B	330-379
	C	280-329

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