

Mathematics 391  
Fall, 2015  
Wieting

## **PROBABILITY THEORY**

### **Basic Concepts**

- (•) Probability Spaces
- (•) Normal Spaces
- (•) Random Variables
- (•) Conditional Probability

### **Basic Theme**

- (•) Convergence

### **Basic Theorems**

- (•) The Ergodic Theorem
- (•) The Central Limit Theorem

### **Texts**

**Elementary Probability**, Thomas Wieting  
(online)

**Basic Probability Theory**, Robert B. Ash  
Dover Books, 2008 (bookstore)

### **Homework**

Weekly: Monday  $\rightarrow$  Monday

### **Examination**

EndTerm: Take Home/Open Book