

## **Elementary Statistics**

Fall 2013-2014

Final Exam Prep

Material: The final will have two sections. One will consist of material drawn from Chapter 6. The other from Chapters 1-5.

### Part 1

#### Chapter 1 (2.5%)

1. Data collection and types of sampling techniques
2. Uses and Misuses of Statistics

#### Chapter 2 (2.5%)

1. Organizing Data
2. Graphs

#### Chapter 3 (10%)

1. Measures of the Central Tendency
2. Measures of Variation
3. Measures of Position

#### Chapter 4 (10%)

1. Sample Space and Probability
2. The Addition Rules for Probability
3. The Multiplication Rules for Probability
4. Conditional Probability
5. Counting Rules
6. Probability and Counting Rules

#### Chapter 5 (10%)

1. Probability Distributions
2. Mean, Variance and Standard Deviation
3. The Binomial Distribution

## Chapter 6 (65%)

1. Properties of the normal distribution
2. The standard normal distribution
3. Applications of the Normal Distribution
4. The Central Limit Theorem
5. The normal approximation to the Binomial Distribution.