

Criminal Justice 44.395
Criminal Justice Statistics
Study Guide for First Midterm Exam

This sheet includes a summary of many of the topics we covered in class. Please note that this list is provided as a **general** reference to help direct your studies. This sheet is not intended to be an **exhaustive** list of all of the areas to be covered on the exam. As I mentioned in class, you are responsible for both the material covered in lectures, as well as that discussed in the assigned readings. The midterm exam will cover chapters 1-4. Below I list some of the important concepts that I feel will be important to review for the exam.

Conceptual Items (in no particular order)

- I. Variables
 - a. Levels of measurement
 - b. Independent vs. dependent
- II. Measures of Central Tendency
 1. a. Mean
 - b. Median
 - c. Mode
- III. Measures of Variability
 - a. Range
 - b. Variance
 - c. Standard Deviation
- IV. Simple Frequency Distributions and Grouped Frequency Distributions
- V. Skewness (what it means, how can we determine whether it is positive or negative)
- VI. Using measures of central tendency and variability to describe the general shape of a distribution.

Statistical Calculations (in no particular order)

- I. Percentile Ranks using a grouped frequency distribution
- II. Measures of central tendency (i.e., mean, median) from simple and grouped frequency distribution
- III. Measures of variability (i.e., variance and standard deviation)
- IV. Keep in mind that I want you to be comfortable with both calculating and interpreting your results