

This document serves as a rough outline of what we covered during our quick run through the gamut of statistics. This scaffolding should help to provide some perspective for how all of the pieces we discussed over the past two days can fit together.

Note: Anything encased in ((double parentheses)) is something that we did not explicitly cover in class but is included to show what else might go into the “Data Collection” category.

This is not meant to be an exhaustive list!

- Data Collection
 - Sampling
 - ((Survey Design + Analysis))
 - ((Experimental Design))
 - ((Missing Data Analysis))
- Statistical Analysis
 - Descriptive Statistics
 - * Univariate Statistics - Distribution
 - Measures of Center
 - Measures of Spread
 - Measures/Descriptions of Shape
 - * Bivariate Statistics - Relationships
 - Measures of Relationships
 - Inferential Statistics
 - * Normal Distribution
 - General Properties
 - Central Limit Theorem
 - * Confidence Intervals
 - * Hypothesis Testing