Experimental Psychology – Arlo Clark-Foos
Study Guide for Exam #3

Understanding Statistics: Description and Correlation

- Bar Graph
- Pie Chart
- Statistical Significance
- Central Tendency
- Mean
- Median
- Mode
- Variability
- Range
- Variance
- Standard Deviation
- Correlation Coefficient
- Pearson Product-Moment Correlation Coefficient
- Regression
- Descriptive Statistics
- Inferential Statistics
- Effect Size
- Frequency Distribution
- Frequency Polygons
- Multiple Correlation
- Partial Correlation
- Scales of Measurement: Nominal, Ordinal, Interval, Ratio
- Path Analysis

Understanding Statistics: Inferential Statistics

- Inferential Statistics
- *t* test
- *F* test
- Analysis of Variance
- Degrees of Freedom
- Systematic Variance
- Error Variance
- Null Hypothesis
- Research Hypothesis
- Power
- Probability
- Statistical Significance
- Type I Error
- Type II Error

Generalizing Results
- Importance of Replication
- Exact Replication
- Conceptual Replication
- External Validity
- Meta-Analysis

* This study guide is a rough outline and may be updated before the study review session
** Updated 11/12/2010