|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Date** | **Readings and Such** | **Lecture Topic** | **Week** | **Assignment Due by 11:59pm** |
| Jan 9 |  | Syllabus, Textbook, data, and create your survey | 1 |  |
| Jan 16 | Broman et al. (2017) – only sections 2-4,6-8 | Working with and Analyzing Data, Overview of Statistics, Intro to Statistics Terminology, Introduction to Jamovi | 2 |  |
| Jan 23 | Ch 2, 3  Start looking for published research in your area | Statistics terminology (Hypothesis, IV and DV, Measurement, Validity and Reliability, Correlation and Experimentation, Distributions, Central Tendency and Variability) | 3 |  |
| Jan 30 | Ch 4, 5, 6 | Statistics terminology continued (hypothesis testing, populations and samples, descriptive and inferential statistics, effect sizes, confidence intervals, Type I and II errors) | 4 |  |
| Feb 6 | Ch 7 | More on Jamovi (data manipulation, transformations, assumptions), Creating tables and figures for reports and manuscripts, Intro to t-tests | 5 | HW #1 (Central Tendency and Variability) |
| Feb 13 | Ch 7, 9, 10 | T-tests (student’s, Mann-Whitney, Wilcoxon), Review of hypothesis tests | 6 |  |
| Feb 20 | Ch 11, 12 | ANOVA (one-way, two-way), ANCOVA, Repeated Measures ANOVA, post-hoc analyses | 7 | HW #2 (t-tests) |
| Feb 27 |  | Mid-Term Examination | 8 | HW #3 (ANOVA) |
| Mar 6 | Ch 13 | Correlations (Pearson, Spearman, partial) | 9 |  |
| Mar 13 | Spring Break! (Do Not Come to Class) | | | |
| Mar 21 | Ch 13 | Linear Regression (hypothesis testing, prediction, assumptions) | 10 |  |
| Mar 27 | Ch 13 | Multiple Regression (moderation, mediation) | 11 | HW #4 (correlations, regression) |
| April 3 | Ch 14 | Categorical Data Analysis (Chi-square, logistic, log-linear, odds ratios) | 12 | HW # 5 (multiple regression) |
| April 10 | Ch 14 | Categorical Data Analysis continued (logistic, odds ratios) | 13 |  |
| April 17 |  | Research Portfolio, Review for final | 14 | HW #6 (categorical data) |
| April 24 |  | Review (get ready for the final) | 15 |  |
| May 1 |  | Final Examination |  |  |