

5710 FINAL REVIEW

1. *General Older Stuff*
 - 1.1. Modern- Gist of robust, bootstrap or Bayesian approaches
 - 1.2. Correlation basics
2. *From Regression*
 - 2.1. Basic Interpretation
 - a) Model
 - b) Predictor level
 - 2.2. Assumptions and other issues (e.g. collinearity, outliers, coding etc.)
 - 2.3. Factors affecting r/slope
 - 2.4. Sequential/Hierarchical
 - 2.5. Exploratory and related issues (e.g. overfitting)
 - 2.6. Moderation
 - 2.7. Mediation
 - 2.8. Logistic regression (gist)
3. *From ANOVA*
 - 3.1. One-way Between subjects design
 - a) Assumptions and other issues, ways to deal with
 - b) Comparison to t-test
 - 3.2. One-way Within subjects design
 - a) Difference from Between Subjects design
 - b) Sphericity assumption
 - 3.3. Planned contrasts and Trend Analysis
 - 3.4. Post hoc analysis
 - a) Familywise vs. pairwise Type I error
 - 3.5. Factorial Design
 - a) Interactions
 - b) Simple effects
 - 3.6. Mixed Design
4. *From Both Regression and ANOVA*
 - 4.1. General Linear Model
 - 4.2. Variance partitioning
5. *Effect Size*
 - 5.1. r family- R^2 , η^2 , why adjust?
 - 5.2. d family
 - 5.3. Metrics to determine relative importance of variables
 - 5.4. Model fit indices

This is just an outline to assist in organizing the content that has been covered. The final had not been made when it was and so it serves no function as a 'list of things that will be on the test'. The exam will again have short answer and application questions, perhaps with those taking up a bit more of the overall exam compared to the midterm.