**STA 4702/5701 – Spring 2019 – Exam 2 Topics**

* Paired Comparisons – 2 Treatments, p Outcomes, n Subjects
* Repeated Measures for Comparing Treatments – q Treatments, Single outcome variable, n subjects
* Comparing Means from 2 Populations – Independent Samples, p Outcomes, ni subjects from group i
* 1-Way MANOVA – p outcomes, g groups, nl subjects from group l
* 2-Way MANOVA – Balanced (n subjects per treatment), p outcomes
* Profile Analysis – 2 Groups, p outcomes measured on same scale
* Repeated Measures/Growth Curves - ≥ 2 groups, p outcomes of same measure at different time/intensity levels
* Linear Regression with 1 response variable (matrix form)
  + Least Squares Estimation
  + Analysis of Variance
  + F-test for Overall Model
  + R2
  + T-tests for Individual coefficients
  + Likelihood Ratio/General Linear Tests
  + Estimating a Mean/Predicting an Individual Observarion