

Terms – Define and Use

Added Variable Plots
Multiple Linear Regression (MLR)
F-test for model
Multicollinearity
Nested models
Interaction term
Polynomial regression
Added Variable Plots
Automated Variable Selection methods
Methods for identifying unusual points
Randomization tests
Bootstrapping

Calculate/Draw - From R output given, (you will not be expected to calculate from raw data)

Variance not accounted for in MLR
Predicted value of Y (\hat{Y}) for a given set of predictors

Understand & Apply from R output given (both SLR and MLR)

Automated Variable Selection Methods
Bootstrapping
Methods for Identifying unusual points
Nested F tests
Assessment of a model
Assessment of outliers
Assessment of multi-collinearity
Describe Parallel and Nonparallel slopes Regression output
Randomization tests
Determine best model

You are not permitted to use your cell phone as a calculator or as a clock. You should make sure you have access to a calculator (and check its batteries) before the exam.

Accommodations: If you have testing accommodations, please see me ASAP so we can arrange an appropriate testing space for you.