

We will amend the order of the content of these chapters to allow more project related discussion first. We will assume that you are running multiple regression models in R already.

Sections that pertain more strongly to making progress on the projects:

3.2.1 Regression Function	5.1 Iterative Approach
3.2.2 Reg Coeff Interp	5.2 Automatic Var Selection
3.2.3 Model Assumptions	5.3 Residual Analysis
3.4.3 Added Variable Plots	5.4 Influential Points
3.4.4 Partial Correlation Coeff	5.5 Collinearity
3.5.1 Binary Variables	5.6 Selection Criteria
3.5.2 Transform Expl Var	5.7.1 Detect Heteroscedasticity
3.5.3 Interaction Terms	5.7.3 Weighted Least Squares
4.1 Binary Variables	5.7.4 Transformations
4.3 One Factor ANOVA	6.1 What the Process Tells Us
4.4 Combine Cat/Cont Vars	6.2 Importance of Var Select
	6.3 Importance of Data Collect
	6.4 Missing Data Models

Sections that develop the underpinnings of multiple regression and give insight into the rules:

Matrix Operations/Derivatives

3.1 Method of Least Squares
3.2.4 Prop of Coeff Estimators
3.3 Estimation and GOF
3.4.1 The $t$ -Test
3.4.2 Confidence Intervals
4.2 Inference for Several Coeff
5.7.2 Heteroscedasticity-Consistent St Err