1		Introduction: Overview and motivation Review of Simple Linear Regression	
2		Simple Linear Regression: Inference and Diagnostics for Simple Linear Regression	
3-4		Multiple Regression: Matrix Notation, Inference and Diagnostics for Multiple Regrevi	
5		Model Selection: Forward, Backward Selection, etc.	
6-7		Categorical Independent Variables: Bridge to ANOVA	
8-9		Midterm, One-way ANOVA	
10-11		Two-way ANOVA, Multi-way ANOVA: Inference, Model validation	
12-13		Logistic Regression: Inference and application; Generalized Linear Models	
14-15		Special Topics: Dissertation Topics such as statistical machine learning, variable selection under multicollinearity, PCA, etc.	
16-17		Project Presentation/Discussion	
18		Final Exam	