Tentative Outline:

- 0. Review: [G: 1-4, 7-8 and 18; M: introduction]
- I. Introduction to Prediction and Estimation:
 - A Overview of the course
 - B. Best Predictors Under Squared Loss (chapter 1, 5 (esp. 5.4-5.5), M: 1.1-1.2 and C: 1A)
 - i. Loss Functions
 - ii. Squared Loss
 - iii. Prediction Error
 - C. Best Linear Predictor (shape restrictions)
 - i. Best Predictor
 - ii. BLP
 - iii. BLP vs. CEF (5.4-5.5)
 - iv. uncorrelated v independence (chapter 6)
 - D. Introduction to Estimators [9-11]
 - i. Analogy Principle
 - ii. Sample Mean in Random Sampling
 - iii. Small Sample Properties
 - iv. Asymptotic Properties
 - 1. Confidence intervals (if time) [this is done in part II]
 - 2. Hypothesis testing (if time) [this is done in part II]
 - E. Introduction to Nonparametric Estimators [Manski, Chapter 1]
 - i. Uniform Kernel Estimator
 - ii. Asymptotic
 - iii. Benefits and Limitations: Why impose functional form?