Econometrics I: 2013

- 1. Method of least squares, graphical demonstration, least squares estimates (matrix notation), interpretation Frisch-Waugh theorem
- 2. Conditional expectations, Population regression, Linear Projection
- 3. Statistical properties: Statistical Model (assumptions on the population), mean and variance of estimates, Gauss-Markov theorem
- 4. Finite sample results: Normality of disturbance term, variance of sigmahat, inference and hypothesis tests t and F
- 5. Special topics: Restricted least squares, Rbarsquare and model selection, omitted variable bias, multi-collinearity, dummy variables

Books

The material is standard and there are many textbooks. Greene, Econometric Analysis is a comprehensive text. Wooldridge, Introductory Econometrics is an excellent text that is especially good for concepts (the mathematical level is a little lower than that of this course). Maddala, Introduction to Econometrics is also highly recommended even though it may be a bit dated.