1. Course Description

This is the third(!) portion of the first semester Ph.D. econometrics course. This course is primarily intended to review procedures for estimating systems of equations (focusing on SUR, panel and simultaneous systems). In the last few lectures of the course we will also review nonparametric density and regression estimation as well as topics in Bayesian econometrics.

Throughout the course, we will apply techniques discussed in the classroom using MATLAB, which is available at the computer labs. MATLAB is very similar to Gauss, which I know you have used before. I will teach you how to write your own m-files and help you to do the problems on the problem sets using MATLAB. The programming side of the course should not be excessively demanding.

2. Grading and Textbooks

The grade from my portion of the class will be divided (50-50) among problem sets and a final exam. Final grades from the courses will then be based on your overall scores from the three portions of the class.

The required textbook is *Econometric Analysis of Cross Section and Panel Data* by Wooldridge. Though we will follow this book, you are only responsible for the topics covered in the lectures. Some other books that may prove to be of value are:

1 Some References on Nonparametrics


2 Some References on Bayesian Econometrics


Poirier, D.J. and J.L. Tobias *Bayesian Econometrics*. Can get from my website.

4. Course Outline

The following is a very rough outline of the topics covered in this course. I have broken them down into topics I expect we will cover, although we may move faster or slower than expected.


(1.5 Weeks): Bayesian Basics: A Quick overview and comparison with Classical Methods, Point and Interval Estimation, Prediction, Testing, Examples with Conjugate Priors, the Linear Regression Model.