Econ 5141: Advanced Micro econometrics

Instructor: George-Levi Gayle
383 Seigle Hall
Office hours: TR 4:30pm to 5:30pm, or by appointment

Prerequisites: It is assumed that students have familiarity with algebra, probability theory, and statistics. It is also required that students are familiar with econometrics at the first year PhD level.

Organization: Class meets twice per week for lecture. Lecture will consist of presentation and hands on section exercise in both. There a laptop computer will be needed for the class.

Problem sets: There will be a number of problem sets (almost every week). The problem set will include some theoretical questions, but will be primarily composed of empirical exercises, which will require the use of the MATLAB programming language. The problem sets and suggested answers are posted to BLACKBOARD.

Readings: A long reading list is provided. While students are not expected to read all the papers on the reading list, it is recommended that readings, which are directly relevant to the material taught in class, should be read. The most relevant readings will be announced during the lectures.

Grades: The grade will be based on the problem sets (60%), class participation (10%), and a final take home exam (30%).

Course Outline

The Core Topics:

I. Nonparametric estimation
III. Binary response models
IV. Censored Data Models
V. Selection Models
VI. Policy Evaluation Methods I
VII. Policy Evaluation Methods II
VIII. Panel data Models
IX. Dynamic programing (Most likely to be covered in the spring)
   a. Dynamic programing
   b. Specification and estimation
   c. Empirical examples