Objectives and Pre-requisites  
This course is intended for students who have taken and passed EC 3412 (Stock/Watson’s or Wooldridge’s Introductory textbook), linear algebra (V2010), intermediate microeconomics (W3211), and macroeconomics (W3213). In case if the class size exceeds the limit of 40, priority will be given to full-time registered Columbia students. Visiting students can sit in subject to space constraints. There is no auditing for this course.


Evaluation:  The final grade will depend on your relative standing in class, not the absolute points you get in the exams. The class average for this course has been B+, with one-third of the class getting A- or above, and one-third a B or lower. The lowest grade is F.

6 problem sets : 30%
Exam 1 (October 19) : 30%  Topics 1-5
Exam 2 (December 10) : 30%  Topics 6-10
Pop quiz : 10%

No make up exam will be given. If you miss Exam 1, Exam 2 will count for 60% of your grade. There will be no exceptions. Problem sets will be assigned as we move along and collected six times. The late penalty is 2 points per day. Programming lanaguages other than MATLAB and R. will not be allowed, and spreadsheets will be strictly prohibited.

Topics to be Covered

1  OLS in Matrix Form: Chapter 3
2  Finite Sample and Asymptotic Properties: Chapter 4
3  Hypothesis testing: Chapter 5.1-5.7
4  GLS: Chapter 9.3
5  Maximum Likeilihood: Chapter 14.1-14.6
6  Endogeneity, Chapter 8.1-8.4, 8.7
7  Stationary time series: Chapter 20
8  Nonstationary time series: Chapter 21
9  Panel data: Chapter 18.1-18.5
10 Discrete Choice Models: Chapter 17.1-17.3

Office Hours:  W, 9:30-11:30 or whenever you can catch me in the office (8am-4pm most days). You will unlikely get a response if you contact me by email!