Syllabus - EC 228 –Econometrics Methods

Spring 2011

Professor Sergei Koulayev
Email: sergey.kulaev@bc.edu
Class: Tue and Thu at 1:30PM, Fulton 220
Office hours:  room 462-J
  12:30-1:30PM on Tuesday (before class)
  10:00-11:00AM on Thursday
TA: Chuanliang Jiang, jiangc@bc.edu.
Office hours: room 459,
  3-4PM on Tuesday
  3-4pm on Thursday

STATA tutorials:
Shannon Phillips:
Monday 10-11am, Carney 009, Monday 1-2pm, Carney 009, Tuesday 3-4pm, Carney 009
Xiaoping Chen:
Wednesday 9-10am, Carney 009, Thursday 3-4pm, Carney 009, Friday 12-1pm, McGuinn 030

Prerequisites: EC151 or EC155, MT100 or MT102, or equivalent. It’s a relatively calculus-intensive course, so
brush up your algebra skills if you feel necessary.


Resources: another instructor for this course, Mark Kazarosian, set up a beautiful website with links
resources: https://www2.bc.edu/~kazarosi/. From there you can find tutorials on STATA, download
datasets, etc.

Grading:

– Problem sets (20%).

– Midterm (35%)

– Final (45%)

Part of the problem sets will include computational exercises through which students will gain practical
experience and familiarity with statistical software such as STATA. Our TA’s will hold six optional tutorial
sections that meet once a week to introduce students to STATA and provide assistance with the problem
sets. You are encouraged to sign up for one (or more) of the tutorial sections.

Please check your email for announcements. There will not be rescheduled or make-up exams. Solutions to
problem sets will not be accepted after their due dates. The lowest grade you receive on one of the problem
sets (which could be zero if a student does not submit a solution on time) will be dropped when evaluating
your overall grade on problem sets. You may use calculators during exams. You must demonstrate your
reasoning and show all calculation to receive full grade.
Course Outline:

1– Introduction to econometrics and economic data (chapter 1)
2– Review of probability (Appendix B)
3– Review of statistics (Appendix C)
4– Simple regression analysis (chapter 2)
5– Multiple regression analysis: estimation (chapter 3)
6– Multiple regression analysis: inference (chapter 4)
7– Multiple regression analysis: OLS asymptotics (chapter 5)
8– Multiple regression analysis: further issues (chapter 6)
9– Multiple regression analysis: binary variables (chapter 7)
10– Heteroskedasticity (chapter 8)
11– Specification and data issues (chapter 9)
If time permits:
12– Regression analysis with time series data (chapters 10-11)
13– Serial correlation and heteroskedasticity in time series regression (chapter 12)
14– Instrumental variables estimation and two stage least squares (chapter 15)