

Econometrics C

Econ 120C, Summer I 2017

Course description: As the last of the econometrics sequence, this course is mainly designed to provide the student with the statistical estimation, and hypothesis testing of the panel data and time series data. We are going to build on the material that you learned in Econ 120A and 120B. You'll learn how to estimate these models on real data sets using Stata, a statistical package that you were introduced to in Econ 120A and 120B.

Prerequisites: Econ 120B (Econometrics B) or Math 181B (Intro/Math Statistics II)

Course materials

Required textbook: James H. Stock and Mark W. Watson, *Introduction to Econometrics*, 2nd Edition, Pearson. You can use other editions of the textbook if you wish, but the problem set will refer to the 2nd edition.

Required Statistical Software: Stata

1. Students are not required but encouraged to buy Stata/IC version 15. IC version can handle mid-sized datasets.
 - This software will be used in this course and Econ 120C as well.
 - Students may order Stata online at reduced prices using GradPlan program at <http://www.stata.com/order/new/edu/gradplans/course-pricing/>
2. Students can use Stata in the computer lab in Econ 100, and in other computer labs on campus, such as ERC 117.
3. Students can also access Stata via the Virtual Lab. See <http://acms.ucsd.edu/students/govirtual/index.html> for more information.

Lectures: TuTh 2:00 – 4:50 at CENTR (Center Hall) 216

Instructor: Dr. Munpyung O

- Office: Economics 109
- Office hours: Tuesday 5:00 – 6:00 and Thursday 11:00 – 12:00 and by appointment.
- e-mail: munpyung@ucsd.edu

Please include “**Econ 120C**” in the subject line of your email.

Discussion section: Wednesday 4:00 – 5:50 at SOLIS (Solis Hall) 104

Teaching Assistants: Baek, YaeIn, yibaek@ucsd.edu at SH (Sequoyah Hall) 140
Office hours: 9:30am – 11:30am on Friday.

Lectures and Discussion Sections: It is important to come to every lecture. If you should miss a class, it is your responsibility to get the notes and any information provided in class. There are

weekly discussion sections for this course. You are **strongly** recommended to attend them since the TA will review material covered in class, and also introduce material not covered in class and go over practice problems, the kind of problems you may encounter on exams. You will also be able to ask the TA any question about the material covered in the lectures during these discussion sections.

Course web page: A course webpage is available at <http://tritoned.ucsd.edu>. It will include information relevant to the course, such as syllabus, problem sets, data sets and more. **You should check this page regularly.**

Lecture slides: I have created my lecture slides for my own use not for distribution.

- I will post my lecture slides after class upon request.
- It is not completed or polished and cannot be a substitute for my lectures.
- Please understand that they are just lecture notes and undoubtedly contain errors. Many details are left out intentionally.
- Again, the lecture slides cannot be a substitute for my lecture. Without taking class, you will not understand my lecture slides.

Problem Sets: I will periodically assign problem sets throughout the course. Even though they will not be collected or graded, it is **VERY** important to do them. The problem sets are the best way to learn and be prepared for the exams.

Exams: The midterm will be given in regular class, Thursday, July 20. The final will be given Saturday, August 5, 3:00pm - 6:00pm. The dates for the exams are not negotiable. If you have a conflict with the scheduled tests, it is your responsibility to drop one of the classes. The final exam will be cumulative, but focus more on the material covered after the midterms. All tests are closed book and notes.

Makeup exams: Make-up examinations will be given only under very unusual circumstances and only if the student provides official written notification to the instructor no less than two weeks prior to the missed test. If you miss a midterm for a **justifiable** and **verifiable** reason, your midterm grade will be your grade on the final. Students who miss a test without a justifiable and verifiable reason, will most likely fail the course. No exceptions!

Grades: The overall score will be computed as follows:

- In class quizzes: 15%
- Midterm: 35%
- A comprehensive final: 50%

The overall course grade, computed using the weights specified above, will be curved.

I reserve the right to modify these weights as needed during the quarter.

Disability: If you have a documented disability, please bring your documentation to me as soon as possible so that I can make suitable accommodations for you. If you believe that you have a

disability and desire accommodation, please register with the Office for Students with Disabilities.

Class conduct: Each student is expected to contribute and help to maintain a positive classroom environment conducive to learning. Do not socialize or read newspapers during class, and be sure your cell phones are turned off. No text messaging is allowed. If you must arrive late or leave early, do so quietly.

Academic Integrity: Any student found responsible for violating UCSD's academic integrity policy will earn a failing grade for the course. In addition, the Council of Deans of Student Affairs will impose a disciplinary penalty. You can find information on the university's policy on academic integrity at this website: <https://students.ucsd.edu/academics/academic-integrity/policy.html>

General comments

- Even if I don't explicitly assign reading from the text, it is a good idea to read the chapter before coming to class in order to have some understanding of the concepts to be presented.
- ***This class moves rapidly.*** *Cramming* is not an effective way to learn this material. A student who keeps up with the topics as they presented will find the course much more enjoyable and will master the concepts more quickly.
- Attend all lectures. You are responsible for any information given during lectures.
- Please do use my office hours for everything related to the content of the course. If you have doubts about the materials, do not wait until a few hours before the exam.
- Students are encouraged to ask questions in class. You've probably heard this before, but if you have a question, chances are that others in the class have the same question.
- Finally, ask questions before, during, or after class or come to my office if you having any trouble with the course material. Remember the goal of education is to learn, not to suffer!

Course content and schedule (Changes, if any, will be announced in the class.)

The following course schedule should be considered extremely tentative, and will likely change depending on our pace through the quarter. I reserve the right to modify this schedule as needed during the quarter.

1. Introduction and a brief review (Chapter 1 - 7)
2. Discrete Choice Model. (Ch 11)
3. Instrumental Variable Regression. (Ch 12)
4. Regression with Panel Data (Ch 10)
5. Experiments and Quasi-Experiments (Ch 13)
- *6. Time Series Regression (Ch 14, part of Ch 15)