

# Econ 120C: Econometrics

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## **Goals**

Econ 120C is a sequel to Econ 120A and Econ 120B. The objective of the course is to provide you with knowledge of econometrics in theory and applications. By the end of the course, you should be skilled users of basic econometric methods. These methods are also widely used in business, finance, and other fields. You should be able to interpret empirical studies in ways that are interesting, enlightening, and useful. You should also be aware of potential problems with regression analysis and know how to make corrections if these problems are present.

Throughout, we will focus on both understanding and doing. The understanding will come from lectures, class discussions, and problem solving. The doing will come from extensive statistical software use. This course requires a quarter-long commitment. Econometrics is best learned by doing, and I will require you to do a fair amount of hands-on work. Successful completion of prior courses in statistics/econometrics, preferably Econ 120A and Econ 120B, is required. The mathematical prerequisites for Economics 120C are: Mathematics 10ABC or 20ABC, or their equivalence.

## **Web Page**

The course materials will be posted on [TritonEd.ucsd.edu](http://TritonEd.ucsd.edu) (formerly [ted.ucsd.edu](http://ted.ucsd.edu)).

- You should be able to log into the course web site using your regular UCSD ID and password. Once you have registered for the class, you should gain access to the course website within 48 hours.
- Please access the course web site regularly in order to keep abreast of changes.
- Throughout the quarter, I will make announcements through the mail function in TritonEd.
- You can make anonymous comments via the course webpage. I will also conduct some survey on teaching effectiveness via TritonEd
- You are encouraged to ask and answer questions on the discussion board. The TA's and I will address your questions on the board as soon as we can.

If you have any question regarding the grading policy, exam format or any other issues, read the course web page first. Chances are that you can find the answer there. If you cannot, email me or the TAs.

## **Textbooks**

*Required:*

The required text for this class is *Introduction to Econometrics*, James Stock and Mark Watson (Second Edition, Addison Wesley 2007).

*Recommended Econometrics Text*

Mastering 'Metrics: The Path from Cause to Effect

## **Software**

We will use STATA to implement the econometric methods covered. Students have access to STATA in the following computer labs: [AP&M B349](#), [Econ 100](#), [ERC 117](#), [SH 142](#), [Geisel 2 West](#).

STATA is essential for problem sets. Exam questions may involve STATA outputs.

Individual copies of *Small* STATA can be purchased at

<http://www.stata.com/order/new/edu/gradplans/student-pricing/> at a discount price.

You can also access STATA via the Virtual Lab. For more information, see [govirtual.ucsd.edu](http://govirtual.ucsd.edu)

All problem sets will be due on **Fridays**. I will be in the lab to answer any questions you may have on **Thursdays**. The door codes for the computer labs are available from your student account.

## **Problem Sets**

There will be eight assignments, each of which will carry a weight of 2.5% towards the final grade.

Assignments will be graded on three scales. A score of 50% will be given to homework which is clearly incomplete, but has made a start towards answering some of the questions. A score of 75% will be given to homework which is largely complete, but does not answer every question in full. A score of 100% will be given to homework which is clearly well-done, and answers all of the assigned problems.

The assignments will involve both theoretical and empirical work. Group study and free discussion are encouraged. But **you should submit your own answers**. If we find two or more identical answers, then all students involved are subject to disciplinary actions. If you have any question on the problem sets, please go to [the Problem Solving and Economics Tutoring lab](#)

You can also stop by during my office hours. I prefer to talk to you in person. I feel that Email is not a very efficient way to ask econometric questions (hard to type equations). However, if you have a time conflict, feel free to drop us a line.

Problem set answers are to be turned in on time. Please submit your answers via [TritonEd.ucsd.edu](http://TritonEd.ucsd.edu). Do not email assignments. The lowest home work score will be dropped. The average of the rest seven scores will be counted toward your final grade. The tradeoff for this benefit is that I will be strict about not accepting late homework.

Solution keys to the homework will be posted on the class web page.

## **Examinations**

There will be a mid-term exam, carrying a weight of 30%. The cumulative final exam (see your class schedule for the time and location) will have a 50% weight. All exams will be closed book, but you can bring ONE page (one-sided, no larger than 8.5in by 11in) of note. It must be hand-written; photo reducing and pasting are not permitted. The one-page policy also applies to both the midterm exam and the final exam. Bring a calculator (just a simple one will do, no need for scientific or business calculator). No need to bring a blue book.

There will be no make-up exams. An exception is medical absence, in which case a doctor's certificate is required. Please hand in the doctor's certificate in class or stop by my office. Please do not request different exam days for personal reasons such as attending weddings and other ceremonies.

## Grading

All grading problems must be rectified within a week from the time an exam is returned.

- Re-grading of exams may not be allowed if they were written in pencil. If you write in pencil, however, you can pick up the exam from my office, check the grading immediately, and take care of complaints before leaving the office. Please address all re-grading requests to me.
- According to a university policy, no re-grading is allowed for final exams.

The course grade will be assigned as follows. First, the weighted average of numerical scores will be obtained. Suppose your scores on the PS are 100,100, 100, 100,100, 100, 75 and 75. Your midterms and final exam scores are 80 and 85, respectively. Then the weighted average is  $(100*6+75)/7*20\%+80*30\%+85*50\% = 85.786$ . The weights on the problem sets, midterm and final exams cannot be changed. Second, if the class mean of the weighted average is below 70 points, points will be added to all scores to bring the mean score to 70 points. Finally, letter grades will be assigned using the following scale:

<b>&gt;=95 A+</b>	<b>[80,85) B+</b>	<b>[65, 70) C+</b>	<b>[50 55) D</b>
<b>[90,95) A</b>	<b>[75,80) B</b>	<b>[60, 65) C</b>	<b>&lt; 50 F</b>
<b>[85,90) A-</b>	<b>[70,75) B-</b>	<b>[55, 60) C-</b>	

Note that the scale is exact. So if your score is 85.786, you will get a A-. Grade very close to the border line might be pushed up if the student is an active participant in class.

I will not assign letter grades on the midterm. However, you can refer to the above table to see where you stand.

The grading policy is a little bit complicated, but I think it is very fair. The policy encourages students' collaboration in group studies.

Your attendance at each class (listening) and your genuine effort on the homework and exams (doing) represent the most important factors affecting your success in this class.

## Office Hours

My office hours are from 3:00pm-5:00pm on Thursdays.

- First half (3:00pm -- ) in my office Economics 219
- Second half ( --- 5:00pm) in Economics 100 (PC lab) or SH 142 (PC lab)
- Find me in one the three places

If you want to stop by my office (Econ 219) at other times, please email me and make an appointment in advance. I check my email frequently.

Disabilities will be accommodated. Please refer to OSD policy on what we do to help.

<http://economics.ucsd.edu/undergraduate-program/accommodations-for-students-with-disabilities.html>.

If you have any questions please feel welcome to come chat in office hours. Again, office hours are for you. You can come and ask econometric questions. You are encouraged to just stop by and introduce yourself.

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