

Economics 4848 Applied Econometrics Spring 2019

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Course Description

Applied Econometrics provides an overview of econometric techniques commonly used in applied research in microeconomics. Methods and topics covered in this course will help students develop a deeper understanding of econometrics as well as learn to use STATA, a statistical software package commonly used in economics. Learning to use STATA will take a significant amount of time and effort but will be extremely valuable as it is much more powerful than what you can do in Excel, EViews, etc. Students will apply the econometric models using data from the US Census Bureau and the Bureau of Labor Statistics. In addition, students will be able to apply these skills to a research topic of their choosing.

Typically each week we will discuss the theory for the current topic and then spend some time working with data to apply the theory in STATA. This data analysis that we do in class will be similar to your assignments, however the theory behind the techniques we use will also be covered on exams.

Prerequisite

This class requires previous completion of Econ 3070, Intermediate Micro, and Econ 3818, Intro to Statistics, or the equivalent.

Course Materials

There is no required text but you may find the following resources helpful:

closed on weekends, but remains open until 10pm on weekdays. If you choose not to buy Stata, please plan your work time accordingly. No late assignments will be accepted because you could not access the computer lab on the weekend. Stata is also available in the Benson computer lab.

You can find a list of other campus labs with STATA at: <http://webdata.colorado.edu/labs/softwaresearch/>

If you choose to purchase your own copy of STATA, it will allow you to work on assignments

based questions. Given the nature of programming in STATA and this course, all exams should be considered "cumulative" in the sense that you will need to know how to do any and all of the tasks we've learned throughout the semester. The theory sections of each exam will be non-cumulative.

Students must take exams at scheduled times so ensure now that you can attend class the dates of the exams. Exams may not be taken early/late and no make ups are given. If you must miss a midterm exam due to an emergency the weight of the midterm will automatically be divided between the other midterm and final exam. Midterm exam scores will not be dropped due to poor performance or lack of preparation. You **cannot** miss both midterm exams.

Final Exam (25%): The final exam is Tuesday, May 7th from 1:30-3:30pm. This exam cannot be skipped or taken at another time so plan accordingly.

Data Project and Presentation (20%): Students may work alone or with **one** other student on a data analysis project applying what you've learned in the course. Assignments are due at 10:00pm unless otherwise noted. Your written project is due by **10:00pm on Sunday, December 16th**. You should start thinking about your topic as soon as possible at the beginning of the semester. Your project should pose a testable economic question that can be answered using one of the techniques we discuss in applied econometrics and using individual level data. A sample outline of what to include in your project: Introduce your research question and why it is an important topic to study, citing any relevant sources. Describe the data and empirical technique(s)

Additional Policies

Attendance: *Attendance is an absolute necessity in this course.* It is where I can help guide you in learning STATA and completing a good research project, and you can get feedback on where

Sexual Misconduct Policy prohibits sexual assault, sexual exploitation, sexual harassment, inti-

Tentative Class Schedule

Week	Content	Assignments
Week 1	January 14-18 Course Information, types of data Statistics and Sampling, ACS/CPS Introduction	
Week 2	January 22-25 Introduction to STATA, Creating Variables	
Week 3	Jan 28-Feb 1	