

Economics 4848 Applied Econometrics
Fall 2020
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Email: jennifer.klein@colorado.edu

Office Hours: M 1:45-2:45pm, Th
3:45-4:45pm

Zoom ID for Office Hours: 147 969
239

Website: Canvas

Teaching Assistant:

Office Hours:

Email:

Course Description

how to remotely access the labs.

If you choose to purchase your own copy of STATA, it will allow you to work on assignments and your project outside the computer labs. Students can receive a discount on the software through the University's GradPlan. Information is available at: <http://www.stata.com/order/new/edu/gradplans/student-pricing/>. I would suggest Stata/IC license which is \$48 for 6 months.

Grade Breakdown

Grades for this course will be based on the following criteria:

- Class Participation (5% total)
- Assignments (10% total)
- Data project and presentation (20%)
- 2 Midterm Exams (20% each)
- Final Exam (25%)

Final grades will be determined by your cumulative performance at the end of the semester, and this may or may not correspond to the typical ten-point grading scale (A's are 90-100, B's are 80-89, etc.)

Class Participation (5% total): Each day will be worth up to 5 points for attending and participating in class. Students who are late or leave early will receive only partial points for the day. Students not in attendance or not answering any questions receive a 0 for the day. We will be using a free website called Socrative to facilitate in class practice questions. Socrative is available for your phone or tablet in the App Store and Google Play Store, or as a website on your laptop (<https://b.socrative.com/login/student/>). The lowest three scores will be dropped.

Assignments (10% total): Students may work alone or with **one** other student. If you work with a partner please upload one assignment for both of you. Assignments must be uploaded on Canvas by 11:00pm on the day they are due. No late assignments will be accepted for any reason. Your lowest homework assignment will be dropped from your overall score for the course. While you will be able to work with a classmate on your homework, your exams will be completed individually. Therefore, it is in your best interest to ensure you fully understand the material.

Midterm Exams (20% each): Midterm exams will be held on **October 1** and **October 29**. The exams will be similar to your homework assignments in that you will be given some data to analyze with accompanying questions and a few theory based questions. Exams will be taken on Canvas.

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. 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 **Thursday, December 10th from 4:30-6:30pm** on Canvas. 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 11:00pm unless otherwise noted. Your written project is due by **11:00pm on Monday, December 7th**. 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) you use. Conduct one or more types of empirical analysis on your data using techniques from the course. Discuss and interpret your empirical findings.

As part of your grade for the project, your chosen research question will be due on **Oct 6**, a project proposal will be due on **Oct 23**, your cleaned data set will be due on **Nov 3**, and your preliminary analysis will be due on **Nov 15**. Individual meetings will be scheduled the week of November 15-19, in lieu of regular class. In addition, each student/group will give a presentation the week of November 30th discussing their research question, data, methods, and results. Both students must present part of their project if working in a group. Due dates for these portions of your project appear in blue in the schedule.

Your overall grade for the final project will be determined as follows: Research Question (5 points), Project Proposal (15 points), Data Cleaning (15 points), Preliminary Analysis (15 points), and Final Presentation (15 points).

if sick and you live off campus, do not come onto campus (unless instructed by a CU Healthcare professional), or if you live on-campus, please alert [CU Boulder Medical Services](#).

Students who fail to adhere to these requirements will be asked to leave class, and students who do not leave class when asked or who refuse to comply with these requirements will be referred to [Student Conduct and Conflict Resolution](#). For more information, see the policies on [COVID-19 Health and Safety](#) and [classroom behavior](#) and the [Student Code of Conduct](#). If you require accommodation because a disability prevents you from fulfilling these safety measures, please see the Accommodation for Disabilities statement on this syllabus.

Before returning to campus, all students must complete the [COVID-19 Student Health and Expectations Course](#). Before coming on to campus each day, all students are required to complete a [Daily Health Form](#).

Students who have tested positive for COVID-19, have symptoms of COVID-19, or have had close contact with someone who has tested positive for or had symptoms of COVID-19 must stay home and complete the [Health Questionnaire and Illness Reporting Form](#) remotely. In this class, if you are sick and unable to join class remotely, please let me know so we can make a plan to keep you on track.

Classroom Behavior: Students and faculty each have responsibility for maintaining an appropriate learning environment. Those who fail to adhere to such behavioral standards may be subject to discipline. Professional courtesy and sensitivity are especially important with respect to individuals and topics dealing with differences of race, color, culture, religion, creed, politics, veteran's status, sexual orientation, gender, gender identity and gender expression, age, disability, and nationalities. Class rosters are provided to the instructor with the student's legal name. I will gladly honor your request to address you by an alternate name or gender pronoun. Please advise me of this preference early in the semester so that I may make appropriate changes to my records. For more information, see the [policies on classroom behavior](#) and the [Student Code of Conduct](#).

Disability Accommodations: If you qualify for accommodations because of a disability, please submit your accommodation letter from Disability Services to your faculty member in a timely manner so that your needs can be addressed. Disability Services determines accommodations based on documented disabilities in the academic environment. Information on requesting accommodations is located on the [Disability Services website](#). Contact Disability Services at 303-492-8671 or [for](#) further assistance. If you have a temporary medical condition or injury, see [Temporary Medical Conditions](#) under the Students tab on the Disability Services website.

Religious Observances: Campus policy regarding religious observances requires that faculty make every effort to deal reasonably and fairly with all students who, because of religious obligations, have conflicts with scheduled exams, assignments, or required attendance.

Honor Code: All students enrolled in a University of Colorado Boulder course are responsible for knowing and adhering to the academic integrity policy. Violations of the policy may include: plagiarism, cheating, fabrication, lying, bribery, threat, unauthorized access to academic

materials, clicker fraud, resubmission, and aiding academic dishonesty. All incidents of academic misconduct will be reported to the Honor Code Council (honor@colorado.edu; 303-735-2273) and will result in a failing grade for the course. Students who are found responsible for violating the academic integrity policy will be subject to nonacademic sanctions from the Honor Code Council as well as academic sanctions from the faculty member. Additional information regarding the academic integrity policy can be found at the [Honor Code Office website](#). This misconduct includes, but is not limited to: Represent the work of others as their own, Use or obtain unauthorized assistance in any academic assignment, Give unauthorized assistance to other students, Modify, without instructor approval, an examination, paper, record, or report for the purpose of obtaining additional credit, Misrepresent the content of submitted work.

Sexual Misconduct, Discrimination, Harassment, and/or Related Retaliation: The University of Colorado Boulder (CU Boulder) is committed to maintaining a positive learning, working, and living environment. CU Boulder will not tolerate acts of sexual misconduct, discrimination, harassment or related retaliation against or by any employee or student. CU's Sexual Misconduct Policy prohibits sexual assault, sexual exploitation, sexual harassment, intimate partner abuse (dating or domestic violence), stalking or related retaliation. CU Boulder's Discrimination and Harassment Policy prohibits discrimination, harassment or related retaliation based on race, color, national origin, sex, pregnancy, age, disability, creed, religion, sexual orientation, gender identity, gender expression, veteran status, political affiliation or political philosophy. Individuals who believe they have been subject to misconduct under either policy should contact the Office of Institutional Equity and Compliance (OIEC) at 303-492-2127 or cureport@colorado.edu. Information about the OIEC, university policies, [anonymous reporting](#), and the campus resources available to assist individuals regarding sexual misconduct, discrimination, harassment or related retaliation can be found at the [OIEC website](#).

Please know that faculty and instructors have a responsibility to inform OIEC when made aware of incidents of sexual misconduct, discrimination, harassment and/or related retaliation, to ensure that individuals impacted receive information about options for reporting and support resources.

Preferred Names and Pronouns: CU Boulder recognizes that students' legal information doesn't always align with how they identify. Students may update their preferred names and pronouns via the student portal; those preferred names and pronouns are listed on instructors' class rosters. In the absence of such updates, the name that appears on the class roster is the student's legal name. I will be glad to honor any requests that I use a different name or pronoun in class.

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 improvement is needed. Students are expected to be in attendance **on time** for every

Tentative Class Schedule

Week	Content	Assignments
Week 1	August 24-28 Course Information, types of data Statistics and Sampling, ACS/CPS Introduction	
Week 2	Aug 31 - Sept 4 Introduction to STATA, Creating Variables	
Week 3	September 7-11 Creating Variables Exploring Continuous & Categorical Data	Homework 1 Due 9/9
Week 4	September 14-18 Bivariate Regression, Distribution of $\hat{\beta}$	