

ECON 4650-001

Principles of Econometrics

Spring 2022

3 Credit Hours

Class time: Monday & Wednesday, 3:00 PM - 4:20 PM

Class location: GC 1855

Instructor: Dr. Haimanti Bhattacharya

Associate Professor, Department of Economics, University of Utah

Email: haimanti.bhattacharya@utah.edu

Office Hour: By appointment

Course overview

The objective of this course is to explore basic econometric methods for empirical analysis using cross-section and panel data. Topics include data analysis, regression estimation and inference.

Course objectives

This course will prepare you to:

- Have a good understanding of the basic theory underlying multivariate regression analysis
- Use data to estimate multivariate regressions and motivate different specifications
- Be able to identify the strength and limitation of a regression specification and make inferences based on the regression estimates

Suggested Textbook

- Wooldridge, Jeffrey M. *Introductory Econometrics: A Modern Approach*. ISBN-10:0-324-58162-9

Course plan

- Introduction to econometrics and STATA (Week 1)
- Simple linear regression model (Week 2-3)
- Multiple regression model and inference (Week 4 - 5)
- Review & Exam 1 (Week 6)
- Qualitative explanatory variables (Week 7-8)
- Specification issues (Week 9)

- Detecting and remedying heteroskedasticity (Week 10)
- Review & Exam 2 (Week 11)
- Qualitative explained variables (Week 12 - 13)
- Pooled and panel data (Week 14 - 15)

Course evaluation components and their weights

- There will be three exams. The best of your three exam scores will receive 50% weight, the second best will receive 30% weight and the lowest score will receive 20% weight. An exam will be available on canvas from 8 am to 8 pm on the day of the exam. Canvas will start your clock from the time you first access an exam. You will have 2 hours to submit your solutions through canvas.
 - Exam 1 on 16 February, 2022
 - Exam 2 on 30 March, 2022
 - Exam 3 on 3 May, 2022

Course grade criterion (based on aggregate weighted score ‘s’)

- A : $s \geq 93\%$, A- : $93\% > s \geq 90\%$
- B+ : $90\% > s \geq 87\%$, B : $87\% > s \geq 83\%$, B- : $83\% > s \geq 80\%$
- C+ : $80\% > s \geq 75\%$, C : $75\% > s \geq 70\%$, C- : $70\% > s \geq 65\%$
- D+ : $65\% > s \geq 60\%$, D : $60\% > s \geq 55\%$, D- : $55\% > s \geq 50\%$
- E : $50\% > s$

Teaching & learning methods and other important aspects of this class

- The course will be based on lectures and applied exercises. We will first go through the theory and then look at applications. I will post the lecture materials and practice problem sets and data on canvas.
- I will use the software STATA for the applied exercises in this course. I will introduce you to the software and also give you a brief reference guide on the most common commands. You may have access to STATA through the university or you can purchase a student license of the software.
- The exams will be held online through canvas and must be taken at the scheduled time. When a student has a legitimate (documented) reason for missing one exam, the weight of the exam will be distributed equally to the other exams. No make-up exams are given. All students are expected to abide by the academic code of conduct as laid out by the university:
<https://regulations.utah.edu/academics/6-400.php>

- Incompletes are not generally given for non-medical reasons.
- If you have any question regarding your grades, you must ask within a week from the day the grades are posted. No exceptions to this rule will be entertained.
- This syllabus is meant to serve as an outline and guide for the course. Please note that I may modify it with reasonable notice to you. Any changes will be announced on Canvas.

COVID guidelines

- I am vaccinated. Yet I do have a health issue that may put me at higher risk if I get infected with Covid. I will be wearing a medically recommended (N95 or KN95) mask in the classroom. I request you all to wear such masks in the classroom to reduce the risk of class disruption due to Covid.
- Please inform me if you get exposed to someone with Covid or have symptoms of Covid, and quarantine at home for at least a week.
- All the lectures will be recorded on zoom and the recording will be posted on canvas by the end of the day after each session.
- Some sessions may be switched from classroom to interactive online format if a need arises. Announcement about such a switch would be posted on canvas.

Wellness Statement

Personal concerns such as stress, anxiety, relationship difficulties, depression, cross-cultural differences, etc., can interfere with a student's ability to succeed and thrive at the University of Utah. For helpful resources contact the Center for Student Wellness - www.wellness.utah.edu; 801-581-7776.

Americans with Disabilities Act (ADA) Statement

The University of Utah seeks to provide equal access to its programs, services and activities for people with disabilities. If you will need accommodations in the class, reasonable prior notice needs to be given to the Center for Disability Services, 162 Olpin Union Building, 581-5020 (V/TDD). CDS will work with you and the instructor to make arrangements for accommodations. All information in this course can be made available in alternative format with prior notification to the Center for Disability Services. (www.hr.utah.edu/oeo/ada/guide/faculty/)

Student Names & Personal Pronouns

Class rosters are provided to the instructor with the student's legal name as well as 'Preferred first name' (if previously entered by you in the student profile section of your CIS account). While CIS refers to this as merely a preference, I will honor you by referring to you with the name and pronoun that feels best for you in class, on papers, exams, group projects, etc. Please advise me of any name or pronoun changes (and update CIS) so I can help create a learning environment in which you, your name, and your pronoun will be respected.

Addressing Sexual Misconduct

Title IX makes it clear that violence and harassment based on sex and gender (which includes sexual orientation and gender identity/expression) is a civil rights offense subject to the same kinds of accountability and the same kinds of support applied to offenses against other protected categories such as race, national origin, color, religion, age, status as a person with a disability, veteran's status or genetic information. If you or someone you know has been harassed or assaulted, you are encouraged to report it to the Title IX Coordinator in the Office of Equal Opportunity and Affirmative Action, 135 Park Building, 801-581-8365, or the Office of the Dean of Students, 270 Union Building, 801-581-7066. For support and confidential consultation, contact the Center for Student Wellness, 426 SSB, 801-581-7776. To report to the police, contact the Department of Public Safety, 801-585-2677(COPS).

LGBT Resource Center

If you are a member of the LGBTQ community, I want you to know that my classroom is a safe zone. Additionally, the U of Utah has an LGBT Resource Center on campus. They are located in Room 409 in the Oplin Union Building. Hours: M-F 8-5pm. You can visit their website to find more information about the support they can offer, a list of events through the center and links to additional resources: <http://lgbt.utah.edu/>. Please also let me know if there is any additional support you need in this class.

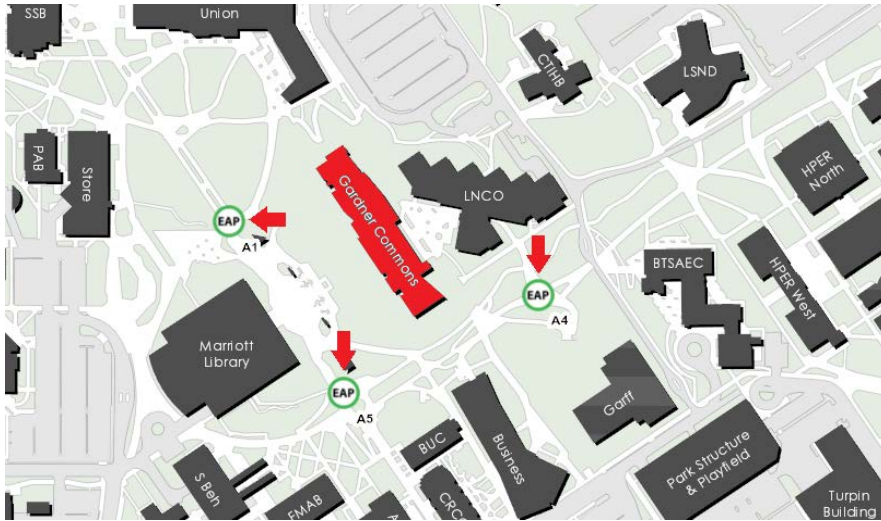
Veterans Center

If you are a student veteran, the U of Utah has a Veterans Support Center located in Room 161 in the Oplin Union Building. Hours: M-F 8-5pm. Please visit their website for more information about what support they offer, a list of ongoing events and links to outside resources: <http://veteranscenter.utah.edu/>. Please also let me know if you need any additional support in this class for any reason.

Safety on Campus

The University of Utah values the safety of all campus community members. To report suspicious activity or to request a courtesy escort, call campus police at 801-585-COPS (801-585-2677). You will receive important emergency alerts and safety messages regarding campus safety via text message. For more information regarding safety and to view available training resources, including helpful videos, visit safeu.utah.edu

CSBS EMERGENCY ACTION PLAN



BUILDING EVACUATION

EAP (Emergency Assembly Point) – When you receive a notification to evacuate the building either by campus text alert system or by building fire alarm, please follow your instructor in an orderly fashion to the EAP marked on the map below. Once everyone is at the EAP, you will receive further instructions from Emergency Management personnel. You can also look up the EAP for any building you may be in on campus at <http://emergencymanagement.utah.edu/eap>.



CAMPUS RESOURCES

U Heads Up App: There's an app for that. Download the app on your smartphone at alert.utah.edu/headsup to access the following resources:

- **Emergency Response Guide:** Provides instructions on how to handle any type of emergency, such as earthquake, utility failure, fire, active shooter, etc. Flip charts with this information are also available around campus.
- **See Something, Say Something:** Report unsafe or hazardous conditions on campus. If you see a life threatening or emergency situation, please call 911!

Safety Escorts: For students who are on campus at night or past business hours and would like an escort to your car, please call 801-585-2677. You can call 24/7 and a security officer will be sent to walk with you or give you a ride to your desired on-campus location.

