

**ECON 4651-001, Fall 2019**  
**Econometrics for BEA**

Monday & Wednesday, 11:50 AM - 1:10 PM, BEH S 115

3 Credit Hours

Prerequisites: MATH 1220 and Statistics

Instructor: Dr. Haimanti Bhattacharya

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*Course overview*

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

*Course objectives*

This course will prepare you to:

- Have a good understanding of the basic theory underlying multivariate regression analysis and binary outcome models
- Detect and deal with violations of the classical model assumptions
- Use real data to estimate multivariate regressions of different functional forms and motivate different specifications
- Be able to identify the strength and limitation of a regression specification and interpret the regression estimates

*Suggested textbook*

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

### *Topics*

- Introduction to simple linear regression model (Week 1)
- Multiple regression model and inference (Week 2 - 5)
- Dealing with qualitative explanatory variables (Week 6 - 7)
- Specification issues (Week 8 - 10)
- Detecting and remedying heteroskedasticity (Week 11)
- Instrumental variable for addressing endogeneity (Week 12 - 13)
- Qualitative explained variable (Week 14 - 15)

### *Teaching and learning methods*

The course will be based on in-class lectures and computer based exercises. We will first go through the theory and then apply the techniques that we learn in practice. We will also have discussions, where active participation is encouraged, of how econometrics can be applied and how econometrics results can be interpreted. We 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 will have access to STATA through the university or you can purchase a student version of the software.

### *Course evaluation components and their weights*

- Assignments (20% weight)
- Exams (80% weight): There will be two exams.
  - Exam 1 on Oct 14, 2019 at usual class time (40% weight).
  - Exam 2 on Dec 13, 2019 from 10:30am to 12:30pm as per university exam schedule (40% weight).

*Course grade criterion* (based on weighted score 's')

- A :  $s \geq 92\%$ , A- :  $92\% > s \geq 90\%$
- B+ :  $90\% > s \geq 88\%$ , B :  $88\% > s \geq 82\%$ , B- :  $82\% > s \geq 80\%$
- 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 :  $50\% > s$

*Notes*

- I will use slides for the lectures to save time that will be used for exercises and discussions in class. The lecture slides will be posted on Canvas.
- The exams 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 transferred to the other exam. Absolutely no make-up exams are given.
- 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 our course. Please note that I may modify it with reasonable notice to you. Any changes will be announced in class and posted on Canvas under Announcements.
- 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>

### *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/](http://www.hr.utah.edu/oeo/ada/guide/faculty/))

### *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](http://www.wellness.utah.edu); 801-581-7776.

### *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 Olpin 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.

### *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).

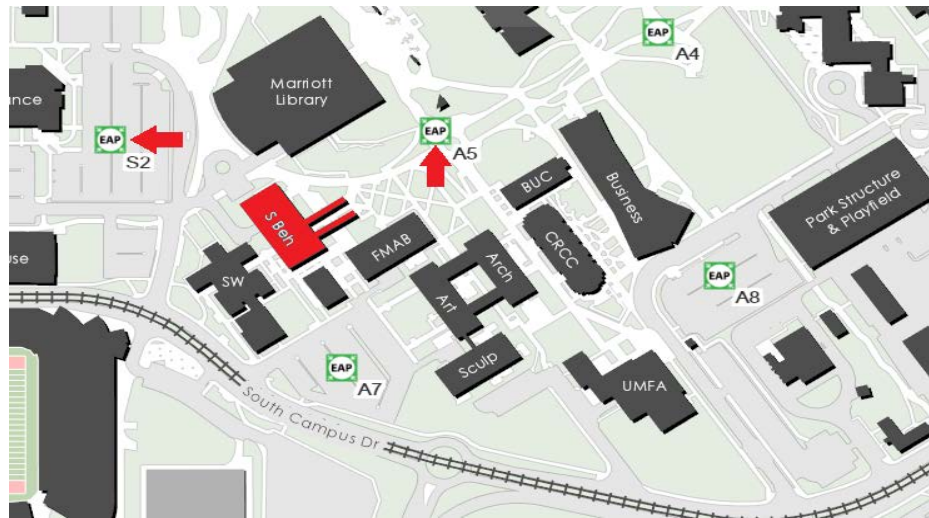
### *Student Names & Personal Pronouns*

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.

### *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](http://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](http://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.

