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Course Syllabus

EC 469/549: Introduction to Econometrics

Course Syllabus

(Tentative)

Winter 2025 Riju Joshi

Web

Office Hours: Monday to Thursdays: 1 pm -3 pm https://riju.youcanbook.me/

This is an introductory econometrics course is designed to teach

estimating economic relationships and how to apply these techniques. Throughout the course we will cover standard issues in empirical research pertaining to estimating causal relationship with non-experimental data focusing on economic applications. The specific topics of the course include: univariate and multivariate regression, ordinary least squares, the Gauss-Markov theorem, small and large sample inference, dummy variables, heteroskedasticity, misspecification and selection issues. Prerequisites The pre-requisites for this course are ECON 201 and 202, MTH 251, and STAT 243 and 244. This course assumes background

knowledge of algebra, probability theory, statistical inference,

distribution theory, hypothesis testing, introductory calculus

algebra. In addition, some knowledge of economic theory will be

(slopes, derivatives, maximization, and minimization) and matrix

useful for this course. Inadequate statistics background may make this course more difficult than necessary. **Texts** • Introductory Econometrics, 6th Edition, by Jeffrey Wooldridge. Older editions will also suffice. [Note: a newer 7th edition is now available.] Using R for Introductory Econometrics, by Florian Heiss. Available here:

https://www.urfie.net/downloads/PDF/URfIE_web.pdf

R

- Discord Discord will be used for all communications! Please join us
- PLEASE USE YOUR FULL NAME ON DISCORD SO THAT I **CAN IDENTIFY YOU!**

• R is mandatory for this course. Almost every homework will

have an R portion that would require students to use R to

answer the questions. Students will also have to submit an R

Tentative Course Topics The nature of econometrics and economic data 1. The simple regression model 2. Multiple regression model 3. Asymptotics

6. Heteroskedasticity

Course Expectation

Homework: 25% Midterm Friday, Feb 7 2025 - Sunday, Feb 9 2025 (details

mark their answer in Canvas.

on a

tions.

Work Load

- will be required to do submit a reading assignment based on the journal article. Specifically, three/four questions
- EC 569: The midterm and final exam will ha ve a few (2-4) extra questions! Homework Assignments

portion of the homework will require students to do analysis in R to be able to answer and students are required to submit their work in R. The homework assignments are crucial for students

to understand the course material better and prepare for exams.

Each homework will consist an R portion. The questions in the R

In addition to the homeworks, there are also 7 Practice Quizzes (PQs) provided. These quizzes are <u>ungraded</u> and would help students looking for more questions for understanding the course material and preparing for the exams. **Exams** If you have a significant reason that you believe would justify

rescheduling an exam, you must contact me as soon as possible. Significant reasons that can be anticipated (e.g. any schedule conflicts with final exams, required participation in University sponsored activities, conferences, etc.) must be given to me at least two weeks before the exam. For reasons that cannot be anticipated, see me immediately to make appropriate arrangements. Generally, if circumstances warrant it, makeup exams will only be provided before the regularly scheduled exam. However, the resolution of any conflicts will be handled

Students MUST have their camera turned on

for the ENTIRE office hour visit. No excep

The material can be difficult and the wor

particularly for people who find math cour

Mastering the material covered in this cou

amount of work outside of class. However,

Zoom Office Hour Policies

rse requires a significant

kload substantial,

ses challenging.

email template for reference.

work is a set of quantitative and computer skills tools that are extremely useful for designing empirical w ork with non-experimental data. **Email Etiquette**

Students are advised to write emails in a professional and polite

Please be concise while stating your question, omitting excuses,

vagueness and/or excessive details. Please follow the following

manner. Emails should start with student's and class name.

Dear Dr Joshi (or Riju), My name is (your name) and I am in your (Class Name). (body) Thank you,

Following is the policy for late submission for homeworks

BE ACCEPTED AND 0 POINTS WILL BE GIVEN FOR THAT

Portland State University supports equal opportunity for all,

regardless of age, color, disability, marital status, national origin,

race, religion or creed, sex or gender, sexual or gender identity,

sexual orientation, veteran status, or any other basis in law.

HOMEWORK. Affirmative Action

(excluding DRC exemptions):

member prior to, or during, the first week of term to discuss any accommodations. Students who believe they are eligible for accommodations but who have not yet obtained approval should contact the DRC immediately.

in this course. Suspected academic dishonesty in this course will be handled according to the procedures set out in the Student Code of Conduct. This will include referring students to the Dean if it appears that students are using the work of others to gain credit in this class.

notes, homework assignments, answer keys, exams, etc.) are the copyrighted property of the course instructor and subject to the following conditions of use: 1. Students may not record lectures/classroom activities or take any pictures/make

the instructor. 2. Students may not share or post recordings or any other course materials online or

students the basics of simple and multiple regression models with cross-sectional data. In this course we study how statistical and mathematical tools and methods are developed for

at https://discord.gg/HGrsWnjcuy

script associated with their homeworks which will contain the work that they have done in R. Please see the module on R for more information.

7. Misspecification, missing data etc (tentative)

will be announced later.): 35% Final Exam Friday, March 14 2025 - Sunday, March 16

4. Further Issues

5. Binary variables

 The class will be assigned a journal article and students based on the article will be assigned and students are

required to submit the answers.

2025 (details will be announced later.): 35%

Writing/Reading assignment: (March 20 2025): 5%

There will approximately 4-6 homeworks given during the course. Homeworks will contain multiple choice questions and

students will be given two attempts. Homework questions will

be provided in a pdf documents but students would need to

Team work is encouraged on homework assignments. Only partial credit will be given for late submissions. Practice Quizzes

your payoff for all this

10 percent deduction for every day that the homework is submitted late and the lowest possible grade is 40 percent. SUBMISSION AFTER 7 DAYS OF THE DUE DATE WILL NOT

Student name

Grading

Disability Resources at PSU Students with accommodations approved through the Disability Resource Center are responsible for contacting the faculty

Academic Honesty Academic honesty is expected and required of students enrolled

All course materials presented during this course (lectures,

been obtained by

Course Materials

reproductions of lecture slides unless prior written consent has

distribute them in any way (including to students enrolled in the course and

anyone not enrolled in the course). 3. Any student violating these conditions may face academic disciplinary sanctions.