**Course Objectives**

This course is to introduce the fundamentals of econometrics, especially within the framework of linear regression models. We will learn the ordinary least square estimation, hypothesis testing, dummy variables and heteroskedasticity. While some mathematical derivations will be presented, the emphasis will be on gaining an intuitive understanding of the principles of econometric analysis. Meanwhile, the students are also required to work with computational software, either Stata or R, to get the estimates and test results.

**Course Outline**

Introduction and Economic Questions

Review of Probability

Review of Statistics

Simple Linear Regression

Hypothesis Tests for Simple Regression and Confidence Intervals

Multiple Regression

Hypothesis Tests for Multiple Regression and Confidence Intervals

Regression with Panel Data

Regression with a Binary Dependent Variable

Instrumental Variables Regression
Grades

1. Homework accounts for 50% of the final grade. There will be 10 homework sets to be handed in the week after they have been assigned. Problem sets will be graded based on the effort exerted to solve every single problem. I will not accept late homework and you will be assigned a grade of zero for that homework (exception: only for serious health related issues, with presenting documents). Submission of all homework sets is mandatory but just only 8 homework sets with highest points will be counted toward your final grade. Five percent of your homework’s final grade is reserved for submission of your work for ALL homework sets (Your work should also reflect an evident effort which is determined by instructor’s discretion), otherwise you will not get this portion.

2. Exams count toward 50% of the final grade. There will be one midterm exam and one final exam with equal weights. Final exam is not cumulative but notice that you need a good understanding of the first part to answer questions in final. There is no makeup exam.

3. There will be up to 15 bonus points (in addition to your final grade) for challenging the instructor scientifically, engaging in an informative discussion, and also good questions. But these bonus points will be given at the discretion of the instructor.

4. Your final letter grade will follow this scheme:

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<thead>
<tr>
<th>Letter Grade</th>
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<tr>
<td>A</td>
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<td>77 - 80</td>
<td>C</td>
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<td>B+</td>
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<td>69 - 72</td>
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Guidelines for submitting homework

Homework assignments are designed to help you learn how to apply the material presented in lectures. You are permitted to discuss course material, including homework, with other students in the class. However, you must turn in your own individual solutions in your own words. Discussion with others is intended to clarify ideas, concepts, and technical questions, not to derive group homework solutions.

Guidelines for exams

If you have a conflict with the exam schedule, please let the instructor know in advance. If you miss an exam, you should provide sufficient paperwork for your excuse. A make-up exam is not guaranteed.

Please note that these exam dates are tentative depending on the progress of the course. Actual test dates will be announced in class. The final exam date and time are nonnegotiable.

Phones should be in silent mode and not visible during test time.

Your ID is required on exam date.
Attendance:

Class attendance is not required and it won’t have any effect on your final grade per se, but if you have decided to attend the class then I expect you to not distract instructor and your classmates. Attending the class but not paying attention will make a negative impression and might have a negative impact on your grade upon the discretion of instructor. Reading the textbook is a complement to the lectures but not a perfect substitute for classroom lectures. You are responsible for all material covered during class time even when you are late or absent. You are responsible for all material, information and discussion held in class, whether you were present or not. You should check your FIU email for any announcement for the class.

Even though the attendance is not mandatory, I will still track it just as a feedback for my own performance. We are going to use the new electronic attendance system called FIU Check-In program. FIU Check-In captures classroom attendance by having students "check in" using their smartphone to scan a QR code placed inside the classroom. Here are what the QR codes look like:

![QR Codes](image)

**Steps for Students to check-in:**

1. Download the FIU Check-In app and sign in with your FIU credentials:
2. Scan the QR code in class via the app. Students can start checking in 9 minutes before class is scheduled.
3. A confirmation message will appear upon successful check-in.

Note: Students may receive a “No Event Found” message if they check-in before the 9 minutes mark or if they recently enrolled in the class. If a student enrolled in class the same day, they will be able to check-in within 24 hours. The student guide [Links to an external site.](https://example.com) shows the steps for students.

**Canvas Learning Management System (LMS):** I will post all materials such as presentations and homework on Canvas ([https://canvas.fiu.edu/login/](https://canvas.fiu.edu/login/)).

**Academic Dishonesty**

Florida International University is a community dedicated to generating and imparting knowledge through excellent teaching and research, the rigorous and respectful exchange of ideas, and community service. All students should respect the right of others to have an equitable opportunity to learn and honestly to demonstrate the quality of their learning. Therefore, all students are expected to adhere to a standard of academic conduct, which demonstrates respect for themselves, their fellow students, and the educational mission of the University. All students
are deemed by the University to understand that if they are found responsible for academic misconduct, they will be subject to the academic misconduct procedures and sanctions, as outlined in the Student Handbook.

**Disability Resource Center**

If you have a documented disability and are a client of the FIU Disability Resource Center (DRC), please have the DRC send any pertinent information directly to my FIU email address so any necessary accommodations can be made in a timely fashion. The FIU Disability Resources Center strives to promote student success by working collaboratively with students, faculty and staff to create an inclusive educational environment. The university is committed to advancing students learning and enhancing personal development. Any information provided will be kept confidential. Please let me know if I can be of any assistance to you.

**Religious Observance**

Accommodations will be made for students who wish to observe their religious holidays. Students should make their requests known at the beginning of the semester – during the first week of classes.