Course title	Econometrics				
Teacher(s)	DAVID WOLF、David Wolf			開講区分	単位数
				3rd quarter	2.0
Numbering Code	J2ML600	Day・Period	Wed3、Wed4	Timetable Slot Code	3J389

Lesson topic

This course focuses on the application of statistical methods to the testing and estimation of economic relationships. The course will begin with a review of multivariate regression analysis and solutions to the problems of multicollinearity, heteroscedasticity, and serial correlation. Dummy dependent variable techniques, panel data analysis, instrumental variables, and fixed effects will also be discussed.

Lesson target

Upon completion of this course, students should be able to understand the nature and consequences of the econometric problems outlined within the syllabus. Students will be able to diagnose and remedy these basic econometric problems in STATA and apply this knowledge to critique empirical studies in economics.

Syllabus and plan

”Topics:
1. Introduction and Administration
2. Learning How to Code in STATA
3. Introduction to OLS; Properties of OLS
4. Hypothesis Testing
5. Specification Decisions
6. Multicollinearity, Serial Correlation and Heteroskedasticity
7. Endogeneity and Instrumental Variables
8. Panel Data Models
9. Fixed and Random Effects Models
10. Binary Dependent Variable Models

The schedule is subject to change as the quarter progresses.”

Evaluation method

”Homework and in-class quizzes (20%)
Empirical project (30%)
Final exam (50%)”

Evaluation baseline

”Homework assignments will contain empirical exercises that must be completed in STATA. You must submit your output and STATA code via BEEF to receive credit.

The empirical project requires students to independently replicate results from a recently published academic journal of my choosing. Students will need to search and correct for specification errors and document the process.

The final exam will be closed book.

The grading scale used for this course is:
90 - 100: S
80 - 89: A
70 - 79: B
60 - 69: C
<60: Fail”

Notice (include info. on related class)

This course focuses on the empirical application of econometric models. Courses in theoretical econometrics should also be taken as they are highly complementary to this course.

Review and preparation

”Students are expected to read the corresponding chapters from the course textbook before coming to class. I will also post additional review material on BEEF throughout the semester. Please make sure to check the course website on BEEF regularly.

I would suggest reviewing mathematics, linear algebra and econometric statistics before the first day of class. Reading up on how to use STATA is also highly recommended.”

Office hour・Contact information

”Office hours: Thursday (9:00 - 11:00) or by appointment
My email address and office location will be provided during the first day of class.”

Message for student

”Please work through the examples in class using STATA and feel free to ask questions if you are ever confused.

You will find this course cumbersome if you do not read the corresponding textbooks chapters before coming to class.”

Improvemenets in Teaching

Text

Introductory Econometrics: A Modern Approach 6th Edition / Jeffery Wooldridge : Cengage Learning ,2016 ,ISBN:978-1305270107

Reference Material

Mathematics for Economists / Carl P. Simon, and Lawrence Blume : New York ,1992 ,ISBN:9780393957334

Classroom Language

English
Regression analysis, specification issues, panel data, STATA

Keywords