Econometric Theory and Practice (Econ 482)
Spring 2023, University of Washington

Instructor: Chang-Jin Kim (Savery Hall 353)
Class Hours: T, Th. 10:30AM - 12:20PM (Thomson Hall 135)
Office Hours: T, Th 1:30-2:30pm
TA Office Hour (Changhun Choi, Savery Hall 274): Wed. 1:00-2:00pm

Useful Textbook:

** **Introductory Econometrics,** by Jeffrey M. Wooldridge.

Prerequisites: Minimum grade of 2.0 in ECON 300, either ECON 311/STAT 311, MATH 390/STAT 390, or Q SCI 381.

Course Description

This course deals with theory and applications of statistical modeling to empirical work in economics; Focuses on regression analysis; derivations of regression estimators and their properties; and applied computer work in estimating multiple regression models.

Grades:

Grades will be assigned on the basis of you performance on two midterm exams (**Apr 18, (Tue) and May 9 (Tue)**) (about 40%, 50 minutes); final exam (**Jun 1, (Th)**) (about 45%, 100 minutes) and a series of assignments (about 15%).

Computer Software: R-programming language

Course Outline:

* Review of Basic Statistical Concepts

  Random Experiment, Sample Space, Random Variable, Population, Sample

* The Principle of the Ordinary Least Squares Method

* The Principle of Hypothesis Testing

* Multiple Regression Analysis

  Model set up and estimation
  Hypothesis testing

* Generalized Least Squares (GLS)

    Heteroscedasticity
    Autocorrelation

* IV (Instrumental Variables) Estimation

POLICY

1. No make-up examinations
2. No questions using email