Econometric Theory and Practice (Econ 482)
Winter 2024, University of Washington

Instructor: Chang-Jin Kim (Savery Hall 353)
Class Hours: T, Th. 10:30AM - 12:20PM (Miller Hall 316)
Office Hours: T, Th 3:00-3:50pm
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 your performance on two midterm exams (**Jan. 25 (Thursday) and Feb. 15 (Thursday)**) (about 40%); final exam (**March 11, (Mon)**) (about 50%) and a series of assignments (about 10%).

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