Econometric Theory and Practice (Econ 482)
Winter 2021, University of Washington

Instructor: Professor Chang-Jin Kim
Class Hours: T, Th. 10:30 AM - 12:20PM
Office Hours: for 30 minutes after each class
TA Office Hour (Seungryul Jeong): To be scheduled

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 Exams: One midterm exam (**Feb 9, (Tue)**) (approximately 30-35%) and final exam (**Mar 15, (Mon)**) (at least 50%) and a series of assignments (approximately 15-20%).

Important Notes:

Computer softwares to be used for the course is the **'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

* IV (Instrumental Variables) Estimation

* Generalized Least Squares (GLS)

Heteroscedasticity
Autocorrelation

POLICY

1. No make-up examinations
2. No questions using email
3. **no exceptions**