Econometric Theory and Practice (Econ 482)
Winter 2020, University of Washington

Instructor: Chang-Jin Kim (Office: Savery Hall 353)
Class Hours: T, Th. 3:30:-5:20PM (MGH 231)
Office Hours: T, Th 10:30-11:20AM
TA Office Hour (Seungryul Jeong, Savery Hall 319H): Wed 2:00-3:00 PM

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 three Exams: Two midterm exams (**Jan 28, (Tue), Feb 20 (Th)**) (approximately 20 % each) and final exam (**Mar 12, (Th)**) (at least 40 45%) and a series of assignments (approximately 15 20%). All the exams are accumulative.

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**