

**Econometric Theory and Practice (Econ 482)**  
**Winter 2022, University of Washington**

In ECON 482A, lectures will be offered hybrid. They will not be recorded. Assignments must be submitted remotely via Canvas. Exams will be conducted off-line. Students will not be able to complete the class remotely.

In-class lecture/exam schedule

**In-class Midterm exam: Thursday, Feb 3**

**In-class Review session: Tuesday, March 8**

**In-class Final Exam (cumulative exam): Thursday, March 10**

**Instructor:** Chang-Jin Kim

**Class Hours:** T, Th. 10:30AM - 12:20PM

**Office Hours:** for 30 minutes right after each class

TA Office Hour (Seungryul Jeong): Wed. 10:30am - 11:30am

**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 an in-class midterm exam (**Feb 3, (Th)**) (about 30%); a cumulative in-class final exam (**Mar 10, (Th)**) (about 55%) and a series of assignments (about 15%).

**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