

Statistics, ECO 1005
Wed & Thr 10:30 - 12:00, Room: TBA

Instructor: Jungmo Yoon.

Contact Information: College of Economics and Finance Bldg 708,

TA: Jae-hak Hahn,

Office Hours: Wed. 11:00-12:00 AM & Wed. 1:00-2:00 PM or by appointment.

Course Objectives: The purpose of this course is to give you working knowledge of basic statistical theory and procedures. It also provides the right background for Econometrics. We will use R to implement many estimation and testing procedures. The problem sets are designed to familiarize you with the course material and give you a chance to apply the statistical techniques discussed in class, while at the same time affording you an opportunity to gain valuable computing experience.

What to expect: The goal of this class is to teach students (i) a core set of statistical techniques and ideas, (ii) R, a statistical software. I will divide class hours to teach two objectives. In addition to tradition exams, I will use weekly assignments, in-class quizzes, attendance, and team project to help students learn and evaluate their progresses. In this syllabus, you will find detailed policy on each of those.

Required Textbook:

1. *Statistics for Management and Economics*. By Gerald Keller, 10th Edition, Cengage Learning.

References (recommended but not required):

2. *Statistics*. By Freedman, Pisani, and Purves, Norton.
3. *Introduction to the Practice of Statistics*. By Moore, McCabe, and Craig, Freeman..
4. *Probability and Statistical Inference*. By Hogg and Tanis, Prentice Hall.
5. *Introductory Statistics with R*. By Peter Dalgaard, Springer, 2002.
6. *Using R for Introductory Statistics*. By John Verzani, Chapman & Hall/CRC, 2004.

Class website:

<https://sites.google.com/site/jungmoyoon2/teaching/statistics>

Find syllabus, class notes, homework assignments, sample exams and quizzes, many more. Check it at least once in every week.

Lecture Notes:

Class notes and slides will be posted in class website. They will be given in advance so that you can use them as guidelines to read our textbook. Class note sometimes provides further details. Class note is no replacement for the textbook. Its purpose is to help you to read our textbook thoroughly.

Grading: Grades for the course will be based on

1. Midterm and Final : 50% (25% each)
2. Homework and Attendance : 20%
3. Quiz : 30%

Important dates:

1. Quiz: September 21, November 23, December 7 (Thursday)
2. Midterm exam : October 26, Thursday, 2:30-3:45pm.
3. Final exam : December 20, Wednesday, 9:00-10:15am.

Grading Policy:

No makeup exams or quizzes will be given in this course. If you miss a quiz the marks will be redistributed across the remaining, not yet written, quizzes equally. If you miss a midterm exam the marks will be redistributed to the final. If you miss the final, you will fail the class. However, illness and serious family problems are the only reasons that you will be excused from a midterm exam. In either case I will require appropriate documentation. If you miss any exams for any other reason you will receive a grade of zero for that exam.

Assignments:

You will have weekly assignments. All assignments will be announced on Thursday during the class and due on the next Thursday, so you have one week to complete. All assignments must be typed or clearly written. Further, questions will not receive full credit unless the work leading up to a final answer is provided. All assignments are due at the BEGINNING of the lecture on the due date. To submit each assignment, students must be in class; electronic submission (via email) will not be accepted. Late assignments will NOT be marked, and you will receive a grade of zero for that assignment. There will be no make-up assignments.

Quiz:

To check the progress of your learning, I will give in-class quizzes, three times throughout the semester. Regard them as mini-exams.

Attendance:

Class attendance is very important. You are expected to be in class on time. If you miss class frequently without my permission, you will be asked to drop the course.

Statistical Software:

There will be a regular lab session to teach you how to use R, a statistical software. What I teach in this lab session will be an important part of class materials you need to master for all exams and quizzes. One advantage of R is that it has become the dominant computational and statistical programming language in many, if not all, industries. So it is useful to know R for your future career. Another big advantage of R is that it is free! You can install R in your personal desktop and laptop without any restrictions. You do not need to be at a computer lab to do your homework or project. R is an elegant high-level programming language, it uses elements of natural language. So if you want, it will open the door for you to learn other languages such as Python, Matlab, Java, and C.

Laptop policy (NEW and IMPORTANT):

There is a significant chance that we will move to a traditional classroom from the PC room to accommodate strong demands for statistics classes. In such a case, students will need to bring a laptop computer whenever there is a lab session.

Academic Integrity: As a Hanyang student, you have to abide by the University's academic honesty policy. The policy prohibits students from plagiarizing, cheating on tests and examinations, presenting work completed for one course as original work for another, and other forms of dishonest performance on college assignments. Any violations, including but not limited to the above examples, will be taken very seriously. All cases will be reported to the Academic Standards Committee immediately.

Extra Help: Do not hesitate to come to my office during office hours or by appointment to discuss a homework problem or any aspect of the course.