INTRODUCTION TO ECONOMIC STATISTICS WITH COMPUTER APPLICATIONS

Class Time: TR 3:30-4:45pm

Instructor: Professor Frank Hsiao, Office: Econ. Building 103
Office Hours: TR 2:00-3:30pm; Office Phone: 492-7908


Hsiao, F., Statistics Laboratory Manual, will be available at the Campus Copies window in Norlin Library.

Students must also register for one of the recitation sections associated with this class; Recitations will begin the week of January 21.

I. Course Outline (Part A and Part B):

Part A: Lectures

1 1/17 Ch. 1 Introduction, Statistical Data Collection
2 1/22 Ch. 2 Descriptive Statistics: Frequency Distributions and Graphs
3 1/29 Ch. 3 Measures of Center Location and Dispersion of a Distribution
4 2/5 Ch. 9 Correlation Analysis, Simple Linear Regression Model and Least-Squares Estimation Technique.
5 2/12 Ch. 4 Probability, Discrete Random Variables, Probability Mass Functions, and Expected Values of a Random Variable
6 2/14 (R) The First Test (Chapters 1, 2, 3, and 9) 100 points
7 2/19 Ch. 4 Probability, Discrete Random Variables, Probability Mass Functions, and Expected Values of a Random Variable
8 2/26 Ch. 5 Binomial Distribution (5.1-5.6)
9 3/5 Ch. 6 Continuous Random Variables, Probability Density Function, Normal and Standardized Normal Distributions (6.1-6.4)
10 3/12 Ch. 6 Normal Sampling Distribution of Mean, t-distribution (6.5-6.8)
11 3/19 Ch. 6 Normal Sampling Distribution of Mean, t-distribution (6.5-6.8)
12 3/26 SPRING BREAK
11  4/2  Ch. 7 Point Estimation and Interval Estimation

4/4  (R) The Second Test (Chapters 4, 5, and 6) 100 Points

12  4/9  Ch. 8 Standard Procedures for Hypothesis Testing about Population Mean.

13  4/16 Ch. 9 Correlation Analysis, Simple Linear Regression Model and Least-Squares Estimation Technique.

14  4/23 Ch. 10 Multiple Regression Model and Estimation

15  4/30 Ch. 10 Multiple Regression Model and Estimation

5/9, 11:30am-2:30pm The Final Exam (150 pts, Comprehensive)

Part B: Computer Applications

Microcomputer Lab: Norlin Library Statistics Laboratory
Dates and Times: to be announced in class

Instruction for each computer exercise/project will be given in class.
Students who are interested in acquiring more knowledge in microcomputers and regression analysis are encouraged to take Econ 4811, Intro to Econometrics.

Note: Check your final exam schedule during the first week of the semester. If you are concerned about the possibility of taking three or more final exams on the same day, please make any desired schedule adjustment during the drop-add period.

II. Chapter Exercises, Recitation Exercises, and Microcomputer Exercises:

a. Each homework chapter and each recitation exercise has the maximum of 10 points. The microcomputer term paper has the maximum of 60 points. No credits for late homework or exercises.

b. Occasionally, extra-credit exercises will be given in the class.

III. Semester Grading: Semester grades consist of three parts: Exam scores (80%), Homework and Tutorial Exercise scores (15%), and Quizzes (given in regular and tutorial) (5%). Probable cutoff points are in the vicinity of 90% (A-), 80% (B-), 70% (C-), 60% (D-), and some curving may be used.

IV. General Remarks

1. Please attend the classes regularly. We expect every student to participate in all classes and recitations.

2. Test dates are firm. Please prepare for the tests long before the test dates.
3. If you are going to miss or have missed an exam, hand in an explanatory statement and documentation to the instructor or call the instructor for approval of excused absence within 24 hours after the test time. Otherwise, no make-up test and a zero grade will be given to unexcused absences for exams.

4. Please come to talk with (or call) the instructor about any problems related to the course.

V. General References:


VI. Some Statistical Data Sources:


The following Examination Rules will be strictly enforced.

1. Spread the chairs - you should not be too close to each other.
2. Put books in front under the blackboard, out of reach.
3. Use only the sheets of paper distributed to you in class. Do not use your own paper for tests and calculations.
4. Hand in all of the test papers and materials you have used in the test. Write "scrap" at the upper right corner of the paper if it does not contain your answers.
5. Make sure to number the questions clearly and write your name on each page of your test sheets.
6. No students are allowed to leave the classroom during the test. Please go to the washroom before the test starts.