INTRODUCTION TO 
ECONOMIC STATISTICS 
WITH COMPUTER APPLICATIONS 

Instructor: Professor Frank Hsiao, Office: Econ. Building 103 
Office Hours: TR 9:15-10:00, 3:15-4:00; Office Phone: 492-7908 


Students must also register for one of the recitation sections associated with 
this class: Recitation will begin in the week of Sept 4.

<table>
<thead>
<tr>
<th>Section</th>
<th>Time</th>
<th>Day</th>
<th>Classroom</th>
<th>Enrollment Limit</th>
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</thead>
<tbody>
<tr>
<td>110</td>
<td>8:00-8:50 A.M.</td>
<td>W</td>
<td>Educ 134</td>
<td>16</td>
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<td>111</td>
<td>5:00-5:50 P.M.</td>
<td>F</td>
<td>Econ 2</td>
<td>16</td>
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<td>112</td>
<td>1:00-1:50 P.M.</td>
<td>M</td>
<td>Econ 13</td>
<td>16</td>
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<td>113</td>
<td>10:00-10:50 A.M.</td>
<td>F</td>
<td>Hale 303</td>
<td>16</td>
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I. Course Outline (Part A and Part B):

Part A: Lectures

1 8/30 Ch. 1 Introduction, and Statistical Data Collection
2 9/4 Ch. 2 Descriptive Statistics: Frequency Distributions and Graphs
3 9/11 Ch. 3 Measures of Center Location and Dispersion of a Distribution
4 9/18 Ch. 9 Correlation Analysis, Simple Linear Regression Model and Least-Squares Estimation Technique.
5 9/27 Ch. 4 Probability, Discrete Random Variables, Probability Mass Functions, and Expected Values of a Random variable
6 10/2 Ch. 5 Binomial Distribution (5.1-5.6)
7 10/9 Ch. 6 Continuous Random Variables, Probability Density Function, Normal and Standardized Normal Distributions (6.1-6.4)
8 10/11 (R) The Second Test (Chapters 9, 4, and 5) 100 Points
9 10/16 Ch. 6 Normal Sampling Distribution of Mean, t-distribution (6.5-6.8)
10 10/22 Ch. 6 Normal Sampling Distribution of Mean, t-distribution (6.5-6.8)
11 10/30 Ch. 7 Point Estimation and Interval Estimation
12 11/6 Ch. 8 Standard Procedures for Hypothesis Testing about Population Mean.
13 11/13 Ch. 9 Correlation Analysis, Simple Linear Regression Model and Least-Squares Estimation Technique.
14 11/15 (R) The Third Test (Chapters 6, 7, and 8) 100 Points
15 11/20 Ch. 10 Multiple Regression Model and Estimation
16 12/4 Ch. 10 Multiple Regression Model and Estimation
17 12/11 Ch. 10 Multiple Regression Model and Estimation
Part B: Computer Applications

Microcomputer Lab: E8 Computer Room; Norlin Library Statistics Laboratory

Dates and Times: to be announced in the classes

Objectives: Introduction to the use of IBM-PC/AT, Lotus 1-2-3 spreadsheet. Instruction for each computer exercise/project will be given in the classes.

Note: Students who are interested in acquiring more knowledge in microcomputers and regression analysis are encouraged to take Econ 4811-Intro. to Econometrics in Spring 1991.

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 desire schedule adjustment during the drop-add period.

II. Chapter Exercises, Recitation Exercises, and Microcomputer Exercises:
   a. Each chapter homework 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 exercise.

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

III. Semester Grading: Based on the total scores from the two highest test scores among Tests 1 to 3. Semester grades consist of three parts: Final Exam scores (80%), and Homework and Exercises scores (15%) - (Quiz 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. Please prepare for the tests long before the test dates.
   3. If you are going to miss or have missed the final 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 no credits will be given to unexcused absences in the final exam.
   4. Please come to talk with (or call) the instructor about any problems related to the course.
V. General References:


V. General References: (continued)


VI. Some Statistical Data Sources:


The following Examination Rule 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.