

STATISTICS -- Syllabus FALL 2010

A. Instructor: Ying-Chao Hung
Office: 250711
E-mail: hungy@nccu.edu.tw
Phone: (02)2939-3091 ext. 88097
Class Hours: Tuesday (5,6,7): 14:10 – 17:00pm
Classroom: TBA

B. Textbook

Statistical Techniques in Business and Economics (14th ed. McGraw Hill 2009) by
Douglas A. Lind William G. Marchal and Samuel A. Wathen

C. Course Objectives

The objective of this course is to provide the students with the essential and fundamental concepts of elementary statistics. The topics include descriptive statistics, probability, sampling, design of experiments, and statistical inferences. At the end of this course, the students should be able to define the real problem, to use graphical and numerical summaries, to apply standard statistical inference procedures, and to draw conclusions from statistical analyses. In addition to materials in the textbook, the students may be required to use the computer lab for some class activities.

D. Weekly Class Schedule (tentative)

- 1 Introduction to Statistics (Chapter 1)
- 2 Charts and Graphs (Chapter 2)
- 3 Describing Data: Numerical Measures, Displaying/Exploring Data
(Chapter 3, 4)
- 4 A Survey of Probability Concepts (Chapter 5)
- 5 A Survey of Probability Concepts (Chapter 5)
- 6 Discrete probability distributions (Chapter 6)
- 7 Discrete probability distributions (Chapter 6)
- 8 Continuous probability distributions (Chapter 7)
- 9 Continuous probability distributions (Chapter 7)
- 10 Midterm
- 11 Sampling methods and Central Limit Theorem (Chapter 8)

- 12 Sampling methods and Central Limit Theorem (Chapter 8)
- 13 Estimation and confidence intervals (Chapter 9)
- 14 Estimation and confidence intervals (Chapter 9)
- 15 One-Sample tests of hypothesis (Chapter 10)
- 16 One-Sample tests of hypothesis (Chapter 10)
- 17 Review
- 18 Final Exam

D. Grading Policy

1. Midterm examination -----	40 %
2. Final examination -----	40 %
3. Quizzes (best two) -----	<u>20 %</u>
Total	<u>100 %</u>

E. Important Notes and Policies

1. No makeup quizzes, midterm, and final examinations will be given.
2. Please attend the exams at the scheduled times. All exams are close books and close notes, you may use dictionaries and calculators.
3. Please turn in the homework assignments and put them in the box on the hallway of the department office (Dept. of Statistics, College of Commerce, 9F)
4. Homework will not be graded but will be discussed in the Lab or during recitation.
5. The course slides and other information will be posted on the web (E-learning website <http://wm3.nccu.edu.tw>)