

Statistics (ETP)

Fall Semester, 2010

1. COURSE STAFF

Lecturer: Dr. Chao-Ping Ting
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Office Hours: Monday 3pm – 5 pm

Teaching Assistant A: To be announced.
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2. TEXT BOOK

Douglas A. Lind, William G. Marchal, and Robert D. Mason. (2010)
Statistical Techniques in Business and Economics with Global Data Sets – 14th
edition

3. COURSE OBJECTIVES

The course aims to encourage statistical thinking and to provide students in all fields of business with an introductory survey of the many applications of descriptive and inferential statistics. It is designed to equip students with the statistical skills to make effective interpretations, judgments, and decision in the business workplace.

4. TEACHING STRATEGIES

This course is conducted over 18 weeks, 16 lecture weeks and 2 exam weeks. Each week consists of three hours lecture sessions and an hour and half recitation sessions. The recitation sessions start whenever the location is finalized, usually in the 3rd week.

The lecture sessions focus on explaining the context of the text book and the recitation sessions focus on working on exercises which relate to the material covered in the week.

Microsoft Excel and MINITAB will be used to perform statistical calculations. The illustration of the commands necessary to achieve the software results will be scheduled during recitation sessions.

The recitation will require your participation.

5. STUDENTS RESPONSIBILITIES

It is expected that you spend at least eight hours every week on this course. This time should be made up attending lectures and recitations, reading, and working on homework assignments.

Your regular and punctual attendance of lectures and recitations is required in this course.

6. KEEPING INFORMED

From time to time, we will post important announcements on the course web site and will send them to your school e-mail address without further notice.

7. EXAMINATIONS

There will be one midterm examination, one final examination, and three quizzes. The midterm and final examinations will be given in the lecture room, and the quizzes will be given during recitation.

Quiz 1	Week 5
Quiz 2	Week 8
Midterm	Week 10
Quiz 3	Week 14
Final	Week 18

No makeup quizzes, midterm, and final examination will be given. Attend the exams at the scheduled times. All exams are close books and close notes, you may use your own dictionaries and calculators.

8. LEARNING ASSESSMENT

Your final grade will be based on the following percentages.

Quizzes (best two)	20%
Midterm	40%
Final	40%

9. HOMEWORK

Homework will be discussed during recitation but will not be collected and graded.

Chapter	Assignments
1	2, 4, 10, 14
2	2, 6, 8, 14, 16, 18, 20, 22
3	8, 10, 12, 16, 20, 22, 24, 26, 28, 31, 34, 36, 38, 40, 46, 50, 54, 56, 62
4	4, 8, 10, 14, 16, 18, 22, 24, 26
5	4, 6, 8, 12, 16, 18, 20, 22, 25, 26, 28, 29, 31, 32, 34, 36, 37, 38, 41, 42, 44, 45, 46
6	3, 4, 8, 14, 16, 18, 21, 22, 24, 26, 27, 30, 33, 35, 36
7	2, 4, 6, 10, 12, 14, 16, 18, 20, 21, 24, 26, 30, 33, 34, 36
8	2, 4, 6, 9, 10, 12, 14, 16, 18
9	3, 5, 6, 7, 10, 12, 14, 16, 18, 20, 22, 27, 28, 29, 30
10	5, 6, 7, 8, 12, 13, 14, 16, 18, 20, 24, 26, 28

10. WEEKLY COURSE SCHEDULE (Tentative)

Week	Chapter	Topics
1	1	What is Statistics?
2	2	Describing data: Frequency tables, frequency distributions, and graphic presentation
3	3	Describing data: Numerical measures

4	4	Describing data: Displaying and exploring data
5	5	A survey of probability concepts, Quiz 1
6	5	A survey of probability concepts
7	6	Discrete probability distributions, Quiz 2
8	6	Discrete probability distributions
9	6, 7	Discrete and Continuous probability distributions
10		Midterm Examination
11	7	Continuous probability distributions
12	7, 8	Continuous probability distributions, Sampling methods and the Central Limit Theorem
13	8	Sampling methods and the Central Limit Theorem
14	9	Estimation and confidence intervals, Quiz 3
15	9	Estimation and confidence intervals
16	10	One-Sample tests of hypothesis
17	10	One-Sample tests of hypothesis
18		Final Examination