

KING FAHD UNIVERSITY OF PETROLEUM & MINERALS
DEPARTMENT OF MATHEMATICAL SCIENCES
DHAHRAN, SAUDI ARABIA

STAT211: BUSINESS STATISTICS I

Course Outline, Semester 073

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Office Hours: SUMTW: 8:15 am – 9:15 am, or by appointment.

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Text and Package:

1. Business Statistics: A Decision-Making Approach, 6th edition by Groebner, D., Shannon P., Fry, P. and Smith, K., Prentice Hall (2004).
2. MINITAB Statistical Package will be used.

Course Objectives:

Introducing basic concepts of probability and statistics to business students. Emphasis will be given on the understanding of the nature of randomness of real world problems, the formulation of statistical methods by using intuitive arguments and thereby making meaningful decisions.

Assessment

Assessment for this course will be based on homework, lab, attendance, quizzes, three major exams and a comprehensive final exam, as in the following:

Activity	Weight
Attendance and homework	4% ¹
Lab exam and lab homework	5%
Exam 1 (Chapters 1 & 2) Sunday 20/7/2008 at 4:30 pm – 7:00 pm in 4-125	17%
Exam 2 (Chapters 3 & 4) Sunday 3/8/2008 at 4:30 pm – 7:00 pm in 4-125	17%
Exam 3 (Chapters 5 & 6) Sunday 17/8/2008 at 4:30 pm – 7:00 pm in 4-125	17%
Final Exam (<i>Comprehensive</i>) Tuesday 26/8/2008 at 7:30 am – 10:00 am in	40%

¹ Every absence deducts ½% and to arrive late twice this equals one absence.

Important Note: The homework can be submitted anytime earlier but when the chapter is completed in a certain class, *it must be well understood*, by all the students, that the homework for that chapter must be submitted in the *Saturday* just after that *and no need for an announcement concerning this regard in advance*.

Home Work Problems:

Ch.1: 11(a, b), 23, 27, 32, 43, 52, 57, 64.

Ch.2: 4, 10, 25, 32, 42, 53, 60.

Ch.3: 14, 20, 24, 34, 48, 59.

Ch.4: 1, 8, 18, 35, 46, 74.

Ch.5: 2, 25, 35, 52, 69, 79, 91, 116.

Ch.6: 3, 6, 13, 20, 29, 37, 56.

Ch.7: 12, 23, 34, 46, 55, 68.

Ch.9: 1, 7, 11, 13, 36(b), 40(b).

Syllabus

Week	Topic	Section
1 5/7 - 9/7	What is Business Statistics, Tools for Data Collection Populations, Samples, Sampling Techniques	1.1 - 1.3
2 12/7 - 16/7	Data Types and measurement levels Graphs, Charts and Tables	1.4 2.1 - 2.3
3 19/7 - 23/7	Measures of Location and Measures of Variation, Coefficient of Variation, Empirical Rule, Tchebysheff's Inequality and Standardized Data Values	3.1 - 3.3 Major 1
4 26/7 - 30/7	Basic Concepts of Probability and Rules of Probability, Probability Distributions	4.1 - 4.3
5 2/8 - 6/8	The Binomial and Other Discrete Distributions, The Normal Distribution and Other Continuous Distributions	5.1 - 5.4 Major 2
6 9/8 - 13/8	Sampling Error, Sampling Distributions of the Mean and Proportion	6.1 - 6.3
7 16/8 - 20/8	Point and Confidence Interval Estimation of the Mean Sample Size Determination for Estimating the Mean and Estimating a Population Proportion	7.1 - 7.3 Major 3
8 23/8 - 25/8	Estimation for Two Population Means and Estimation of Two Population Proportions	9.1 and 9.3

Notes:

1. Classes will meet in the lab for MINITAB whenever it is needed and *possible*.
2. Attendance on time is *very* important. Therefore, ½ % will be deducted for *each* one absence.
3. Mostly, attendance will be checked within the *first five minutes* of the class. Entering the class after that, is considered as one late, and *every two "lates"* equals to one absence.
4. In accordance with the university undergraduate bulletin, *eight* unexcused absences will result in a grade of *DN* and no need for any prior notice or warning.
5. All contacts or announcements between the instructor and the students are supposed to be held on the WebCT, so the student *must* check his WebCT inbox *at least once* a day.
6. Students will be required to carry a calculator with statistical functions in *every* class, quiz, or exam.