

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

**STAT211: BUSINESS STATISTICS I**  
**Course Outline, Semester 053**

**Instructor:** Marwan Al-Momani

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**Office Hours:** SUMTW: 10:45 – 11:45

**Text and Package:**

1. Business Statistics: A Decision-Making Approach, 6<sup>th</sup> 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 home work, lab, attendance, quizzes, two major exams and a comprehensive final exam, as in the following:

<b>Activity</b>	<b>Weight</b>
Quizzes, attendance and homework	15% <sup>(1)</sup>
Lab exam and lab homework	5%
Exam 1 (Chapters 1, 2, 3) Tuesday 18/7/2006 at 4:30 to 7:00 location : OAB	20%
Exam 2 (Chapters 4 & 5) Tuesday 1/8/2006 at 4:30 to 7:00 location : OAB	20%
Final Exam (Comprehensive) Tuesday 15/8/2006 :To be determined later	40%

**(1) There will be 3 pts for attendance, 3 pts for HW and 9 pts for quizzes**

**Calculator:** Students will be required to carry a calculator with statistical functions.

**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**

<b>Week</b>	<b>Topic</b>	<b>Section</b>
01 24/6 – 28/6	What is Business Statistics, Tools for Data Collection Populations, Samples, Sampling Techniques	1.1 - 1.3
02 1/7 – 5/7	Data Types and measurement levels Graphs, Charts and Tables	1.4 2.1 - 2.3
03 8/7 – 12/7	Measures of Location and Measures of Variation, Coefficient of Variation, Empirical Rule, Tchebysheff's Inequality and Standardized Data Values	3.1 - 3.3
04 15/7 – 19/7	Basic Concepts of Probability and Rules of Probability, Probability Distributions	4.1- 4.3
05 22/7 – 26/7	The Binomial and Other Discrete Distributions, The Normal Distribution and Other Continuous Distributions	5.1 - 5.4
06 29/7 – 2/8	Sampling Error, Sampling Distributions of the Mean and Proportion	6.1 - 6.3
07 5/8- 9/8	Point and Confidence Interval Estimation of the Mean Sample Size Determination for Estimating the Mean and Estimating a Population Proportion	7.1 - 7.3
08 12/8- 14/8	Estimation for Two Population Means and Estimation of Two Population Proportions	9.1 and 9.3