

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

STAT211: BUSINESS STATISTICS I
Course Outline, Semester 043

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Office Hours: SUMT 12:00am to 1:30pm

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 home work, lab, attendance, quizzes, two major exams and a comprehensive final exam, as in the following:

Activity	Weight
Quizzes, class works and homework	10%
Lab exam and lab homework	10%
Exam 1 (Chapters 1, 2, 3) Tuesday 26/7/05 at 4:30 to 7:00 location :Building 10	20%
Exam 2 (Chapters 4 & 5) Tuesday 9/8/05 at 4:30 to 7:00 location :Building 10	20%
Final Exam (Comprehensive)	40%

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).

Lab Homework Problems:

Lab1: 2.32, 2.46, 2.61

Lab2: 3.19, 3.33, 3.46

Lab3: 5.64, 5.65, 5.125

Lab4: 6.10, 6.26, 6.41

Lab5: 6.23, 7.40, 7.82

Tutorial Problems:

Ch.1: 15, 24, 30, 40, 46, 53, 55, 59, 63.

Ch.2: 6, 9, 24, 30, 44, 47, 58.

Ch.3: 13, 27, 30, 39, 41, 47, 57.

Ch.4: 2, 11, 17, 26, 47, 65.

Ch.5: 3, 23, 29, 38, 46, 67, 70, 79, 108, 117.

Ch.6: 1, 5, 9, 16, 21, 28, 32, 64.

Ch.7: 9, 14, 24, 27, 38, 49, 53, 65, 77.

Ch.9: 3, 10, 12, 14, 38, 41.

Syllabus

Week	Topic	Section
01 2/7 – 7/7	What is Business Statistics, Tools for Data Collection Populations, Samples, Sampling Techniques	1.1 - 1.3
02 9/7 – 14/7	Data Types and measurement levels Graphs, Charts and Tables	1.4 2.1 - 2.3
03 16/7 – 21/7	Measures of Location and Measures of Variation, Coefficient of Variation, Empirical Rule, Tchebysheff's Inequality and Standardized Data Values	3.1 - 3.3
04 23/7 – 28/7	Basic Concepts of Probability and Rules of Probability, Probability Distributions	4.1- 4.3
05 30/7 – 4/8	The Binomial and Other Discrete Distributions, The Normal Distribution and Other Continuous Distributions	5.1 - 5.4
06 6/8 – 11/8	Sampling Error, Sampling Distributions of the Mean and Proportion	6.1 - 6.3
07 13/8- 18/8	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 20/8- 23/8	Estimation for Two Population Means and Estimation of Two Population Proportions	9.1 and 9.3

The steps for downloading **MINITAB** are as follows:

1. Select **Run** from the start menu.
2. Write \\ **mathsoft** and OK.
3. Select **Software**.
4. Select **Math Application**.
5. Select **Minitab 13**.
6. Execute the file **Setup**.