

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

STAT212 (BUSINESS STATISTICS II)

Course Outline, Semester 043

Instructor: Marwan Al-Momani

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Office Hours: SUMT: 12.00 pm to 1:30

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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.
3. Scientific calculator with statistical functions.

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, home works and attendance	10%
Exam 1 (Chapters 8, 9, 10) B10 on Tuesday 26/7/05 at 4:30 pm to 7:00 pm	20%
Exam 2 (Chapters 12 & 13) B10 on Tuesday 9/8/05 at 4:30 pm to 7:00 pm	20%
Lab reports and lab exams	10%
Final Exam (Comprehensive)	40%

Note: Students will be required to carry a scientific calculator with statistical functions

Quizzes: There will be a quiz at the end of each chapter.

Home Work Problems:**Ch-8:** 8.1, 8.4, 8.18, 8.24, 8.34**Ch-9:** 9.18, 9.19, 9.25, 9.34, 9.35**Ch-10:** 10.1, 10.2, 10.3, 10.7, 10.12, 10.14, 10.20**Ch-12:** 12.1, 12.2, 12.4, 12.15, 12.17, 12.19**Ch-13:** 13.1, 13.2, 13.9, 13.14, 13.15, 13.19, 13.28, 13.30, 13.33**Ch-14:** 14.1, 14.2, 14.3, 14.12, 14.15, 14.19, 14.21, 14.28, 14.30, 14.35, 14.39**Ch-15:** 15.1, 15.8, 15.12, 15.16, 15.25, 15.29, 15.33, 15.36, 15.37**Computer Problems:****Ch-8:** 8.20, 8.38**Ch-9:** 9.31, 9.42**Ch-10:** 10.11, 10.21**Ch-12:** 12.10, 12.26**Ch-13:** 13.13, 13.20, 13.36**Ch-14:** 14.7, 14.18, 14.27, 14.32, 14.43**Ch-15:** 15.13, 15.30, 15.41**Syllabus**

Week	Sections	Topics
1 2/7 – 6/7	8.1	Hypothesis Tests for Means
2 9/7 – 13/7	8.2, 9.1 and 9.3	Tests for Proportions, Tests for the Difference Between Two Means and Tests for Two Populations Proportions
3 16/7 – 20/7	10.1, 10.2, 12.1, 12.2	Tests for One and Two Population Variances Goodness of Fit Tests and Introduction to Contingency Tables
4 23/7 – 26/7	13.1 – 13.3	Scatter Plots and Correlation and Simple Linear Regression
5 30/7 – 3/8	13.3, 14.1 and 14.2	Simple Linear Regression (continued), Introduction to Multiple Regression, and Qualitative Variables
6 6/8 – 10/8	14.3 – 14.5	Nonlinear Relationships and Stepwise Regression, Aptness of the Model
7 13/8 – 17/8	15.1, 15.2	Introduction to Forecasting, Time Series, and Index Numbers, Trend-Based Forecasting Techniques
8 20/8 – 22/8	15.3	Forecasting Using Smoothing Methods

Note: In accordance with University rules, *seven* unexcused absences will result in a grade of *DN*.