

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

Term: 1st semester 2006-2007 (061)

STAT211: BUSINESS STATISTICS I

Course Objectives:

Introduce basic concepts of probability and statistics to business students. Emphasize the understanding of the nature of randomness of real world problems, the formulation of statistical methods using intuitive arguments and thereby make meaningful decisions.

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.

Instructor: Esam AL Sawi

Office: 4-147-4

Phone: 1887

E-mail: alsawies@kfupm.edu.sa

Web page: <http://faculty.kfupm.edu.sa/math/alsawies>

Office Hours:

Meeting Times & Location:

Section	Location	Time

Assessment

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

Activity	Weight
Quizzes ¹ , attendance, homework and Lab work	20% (7%+3%+3%+7%)
Exam 1 (Chapters 1, 2, 3) 7:00 pm – 9:00 pm, Tuesday 31/10/2006 OAB	20%
Exam 2 (Chapters 4 & 5) 3:00 pm – 5:00 pm, Wednesday 6/12/2006 OAB	20%
Final Exam (Comprehensive) Time and Location: TBA	40%

Note: Students are required to carry a calculator with statistical functions.

¹ There will be a quiz at the end of each chapter.

Syllabus

(Tentative)

Week	Dates	Sections	Topics	Important dates
01	9/9 – 14/9	1-1,1-2	What is Business Statistics, Tools for Data Collection	Thu 14/9: Normal Saturday Classes
02	16/9 – 20/9	1-3,1-4	Populations, Samples, Sampling Techniques, Data Types	Tue 19/9: Last day for dropping course(s) without permanent record
03	24/9 – 27/9	2-1, 2-2, 2-3	Graphs, Charts and Tables	Sat 23/9: National Holiday
04	30/9 – 4/10	3-1,3-2	Measures of Location and Measures of Variation	
05	7/10 – 11/10	3-3	Coefficient of Variation, Empirical Rule, Tchebysheff's Inequality and Standardized Data Values	
12/10-27/10 Id al-Fitr Vacation				
06	28/10 – 1/11	4-1	Basic Concepts of Probability	Tue 31/10: First Exam
07	4/11 – 8/11	4-2, 4-3	Rules of Probability, Probability Distributions	Tue 7/11: Last day for dropping course(s) with grade of "W" thru Internet
08	11/11 – 15/11	5-1, 5-2	The Binomial and Other Discrete Distributions	
09	18/11 – 22/11	5-3	The Normal Distribution	
10	25/11 – 29/11	5-4, 6-1	Other Continuous Distributions, Sampling Error	Wed 29/11: Last day for withdrawal from all courses with grade of "W" thru the Univ Registrar Office
11	2/12 – 6/12	6-2, 6-3	Sampling Distributions of the Mean and Proportion	Wed 6/12: Second Exam Sat 2/12: Beginning of Early Registration for the Second Semester, 2006-2007 (062); Beginning of registration for Coop
12	9/12 – 13/12	7-1	Point and Confidence Interval Estimation of the Mean and Proportion	
13	16/12 – 20/12	7-2, 7-3	Sample Size Determination for Estimating the Mean and Estimating a Population Proportion and	
21/12-5/1 Id al-Adha Vacation				
14	6/1 – 10/1	9-1,9-3	Estimation for Two Population Means and Estimation of Two Population Proportions	Wed 10/1: Last day for major exams; Last day for withdrawal from all courses with grade of "WP/WF" thru the University Registrar Office
15	13/1 – 17/1		Review	

Problems

	Homework	Lab work
Ch.1	7, 11(a, b), 14, 23, 27, 32, 43, 37, 52, 57, 62, 64.	1, 2, 6, 15, 24, 30, 34, 40, 46, 53, 55, 59, 63.
Ch.2	4, 10, 18, 25, 27, 32, 37, 42, 46, 53, 60.	6, 9, 16, 24, 30, 36, 40, 44, 47, 50, 58.
Ch.3	4, 14, 18, 20, 26, 33, 34, 46, 48, 54, 59.	3, 25, 19, 24, 27, 30, 41, 42, 47, 50, 57.
Ch.4	1, 8, 14, 18, 35, 38, 46, 49, 63, 74.	2, 11, 15, 17, 26, 39, 47, 52, 65, 78.
Ch.5	2, 22, 25, 30, 35, 40, 52, 64, 69, 79, 85, 91, 116.	3, 21, 23, 29, 38, 47, 53, 67, 70, 79, 87, 108, 117.
Ch.6	3, 6, 10, 13, 20, 26, 29, 37, 41, 51, 56, 68.	1, 5, 9, 16, 21, 28, 32, 39, 42, 52, 64, 76.
Ch.7	3, 12, 19, 23, 25, 34, 40, 41, 46, 55, 58, 62, 68, 72, 82.	4, 9, 14, 24, 27, 36, 38, 42, 49, 53, 57, 61, 65, 77, 80.
Ch.9	1, 7, 11, 13, 36(b), 40(b).	3, 10, 12, 14, 38, 41.