

King Fahd University of Petroleum & Minerals
Department of Mathematics and Statistics
Dhahran, Saudi Arabia

Term: 1st semester 2008-2009 (081)

STAT211: BUSINESS STATISTICS I

Course Objectives: The objective is to introduce basic concepts of probability and statistics to business students by emphasizing the understanding of the nature of randomness of real world problems, the formulation of statistical methods using intuitive arguments and thereby making meaningful decisions.

Text Book and Package:

1. Business Statistics: A Decision-Making Approach, 6th edition, by Groebner, D., Shannon P., Fry, P. and Smith, K., Prentice Hall (2005).
2. MINITAB.
3. Scientific calculator **with statistical functions**

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Office Hours: 1000 to 1100 (Sat) 1000 AM to 1150 AM (Mon and Wed) or by appointment

Lecture Times & Location: Section 6 (0900 AM to 0950 AM at 24-244 on Sat, Mon and Wed), Section 5 (1410 AM to 1500 AM at 24-112 on Sat, Mon and Wed),

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

Activity	Weight
Quizzes, attendance, and homework	10%
Lab	10%
Exam 1 (Ch 1, 2 & 3) (9:00 pm – 10:00 pm, Tue, 11 Nov, Building 10)	20%
Exam 2 (Ch 4 & 5) (5:30 pm – 7:30 pm, Sun, 21 Dec, Building 10)	20%
Final Exam (Comprehensive) (7:30 am – 09:30 am, Tue, 10 Feb, 2009)	40%

Note: Once a chapter is finished, you will expect a quiz. Students are required to carry pens and a calculator with statistical functions every lecture, quizzes, and exams. Students are also expected to take class notes and organize their learning material in a binder for easy retrieval to help them study and review for class, exams, etc

Assigned Textbook Problems

	Homework	Tutorial in Lab (Optional Problems)
Ch.1	7, 11(a, b), 27, 32, 43, 53, 57, 62, 64.	Draw SRS wor and wr
Ch.2	4, 10, 25, 27, 37, 42, 46, 53, 60.	6, 9, 24, 30, 36, 40, 44, 46, 50, 58.
Ch.3	4, 14, 20, 26, 34, 54, 59.	3, 24, 25, 27, 41, 42, 47, 50, 57.
Ch.4	1, 8, 14, 18, 35, 38, 46, 49, 63, 74.	39.
Ch.5	2, 22, 25, 30, 35, 40, 52, 64, 69, 79, 85, 91, 116.	3, 27, 28, 29, 30, 38, 47, 53, 67, 70, 108, 117.
Ch.6	3, 6, 10, 13, 20, 26, 29, 37, 41, 51, 56, 68.	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, 65, 77, 80.
Ch.9	1, 7, 11, 13, 36(b), 40(b).	3, 10, 12, 14, 38, 41.

Syllabus (Tentative)

Wk	Dates	Sections	Topics
1	11.10 – 15.10	1-1,1-2	What is Business Statistics?, Tools for Data Collection
2	18.10 – 22.10	1-3,1-4	Populations, Samples, Sampling Techniques, Data Types [Tue, 21.10: Last day for dropping course(s) wopr]
3	25.10 – 29.10	2-1, 2-2, 2-3	Graphs, Charts and Tables
4	01.11 – 05.11	3-1,3-2	Measures of Location and Measures of Variation
5	08.11 – 12.11	3-3, 4-1	CV, ER, TI and Standardized Data Values, Basic Concepts of Probability (9:00 pm – 10:00 pm, Tue, 11 Nov, Building 10) [Midterm Grade Report Due]
6	15.11 – 19.11	4-1,4-2	Basic Concepts of Probability, Rules of Probability [Tue, 18.11: Last day for dropping courses with W thru internet]
7	22.11 – 26.11	4-2, 4-3, 5-1	Rules of Probability (contd), Probability Distributions The Binomial Distribution
8	29.11 – 30.11 01.12 – 02.12	5-2	Poisson and Hypergeometric Distribution [Tue, 02.12: Last day of classes before Eid al-Adha]
9	15.12 – 17.12 20.12 – 24.12	5-3, 5.4	The Normal Distribution, Uniform Distribution [Mon, 15.12: First day of classes after Eid al-Adha] (5:30 pm – 7:30 pm, Sun, 21 Dec, Building 10) Thursday, 18.12: Normal Wednesday Class
10	27.12 – 31.12	5.4	Uniform and Exponential Distributions [Tues, 30.12: Last day for withdrawal from all courses with grade of "W" thru the Registrar Office]
11	03.01 – 07.01	6-1, 6.2, 6-3	Sampling Error, Sampling Distributions of the Mean and Proportion [Sat, 03.01: Beginning of Early Registration for the Second Semester, 2007-2008 (072)
12	10.01 – 14.01	7-1	Point and Confidence Interval Estimation of the Mean and Proportion
13	17.01 – 21.01	7-2, 7-3	Sample Size Determination for Estimating the Mean and Estimating a Population Proportion [Tue, 20.01 Last day for withdrawal from all courses with grade of "WP/WF" thru URO]
14	24.01 – 28.01	9-1,9-3	Estimation for Two Population Means and Estimation of Two Population Proportions
15	31.01– 31.01	9.3	Review
	10.02– 10.02		Comprehensive Final Exam (7:30 am – 09:30 am, Tue, 10 Feb, 2009)