

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

STAT211: BUSINESS STATISTICS I
Course Outline for Semester 083

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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, attendance and homework	15% ⁽¹⁾
Lab exam and lab homework	5%
Exam 1 (Chapters 1, 2, 3)	20%
Exam 2 (Chapters 4 & 5)	20%
Final Exam (Comprehensive)	40%

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

General Note on Problem solving in Homework, and Exams:

Students are required to carry **pens** and a **calculator** with statistical functions to **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

To effectively learn statistics, students need to **solve problems** and **analyze data**. The selected assigned problems are specifically designed to prepare you for class quizzes, lab, majors and final exam. So, it is expected that you complete these problems **step-by-step** and with **comprehension**.

Never round your intermediate results to problems when doing your calculations. This will cause you to lose calculation accuracy. Round only your final answers and you should not round less than 4 decimal places unless required otherwise.

It is to the student's advantage to keep a binder for storing class notes, homework, and other graded assignments. Students who are organized will find it easier to find important materials when studying for exams.

A formula sheet and **statistical tables** will be given for you in every exam, so you only need to bring with you **pens, pencils, a sharpener, an eraser,** and a **calculator**.

Tentative Schedule

Week	Sections	Topics	University dates
1 July 11 -15	1.1 - 1.3	What is Business Statistics, Tools for Data Collection Populations, Samples, Sampling Techniques	Wed, July 15 Last day for dropping course(s) without permanent record
2 July 18 - 22	1.4	Data Types and measurement levels	
	2.1 - 2.3	Graphs, Charts and Tables	
3 July 25 - 29	3.1 - 3.3	Measures of Location and Measures of Variation, Coefficient of Variation, Empirical Rule, Tchebysheff's Inequality and Standardized Data Values	1st Exam July 29.
4 Aug 1 - 5	4.1- 4.3	Basic Concepts of Probability and Rules of Probability, Probability Distributions	Tue, Aug 4 Last day for dropping course(s) with grade of 'W' thru Internet http://regweb.kfupm.edu.sa
5 Aug 8 - 12	5.1 - 5.4	The Binomial and Other Discrete Distributions, The Normal Distribution and Other Continuous Distributions	Wed, Aug 12 Last day for withdrawal from all courses with grade of 'W' thru Internet http://regweb.kfupm.edu.sa
			2nd Exam Aug 12.
6 Aug 15 - 19	6.1 - 6.3	Sampling Error, Sampling Distributions of the Mean and Proportion	
7 Aug 22 - 26	7.1 - 7.3	Point and Confidence Interval Estimation of the Mean Sample Size Determination for Estimating the Mean and Estimating a Population Proportion	Wed, Aug 26 Last day for major exams; Last day for withdrawal from all courses with grade of 'WP/WF' thru the University Registrar Office
8 Aug 29 – Sep 2	9.1 and 9.3	Estimation for Two Population Means and Estimation of Two Population Proportions	Mon, Aug 31 Last day of classes

Important Notes:

- ✓ We will explain the MINITAB commands in the class and the student free to do his homework any were he likes.
- ✓ In accordance with University rules, **nine unexcused absences** will result in a grade of **DN**.
- ✓ **Attendance** on time is **very** important. Therefore, ½ % will be deduced for **each** one absence
- ✓ Mostly, attendance will be checked within the **first five minutes** of the class. Entering the class after that, is considered as one late, and **every two times late** equals to one absence.
- ✓ All contacts or announcements between the instructor and the students are supposed to be held on the WebCT, so the student **must** check his WebCT inbox **at least once** a day.

Home Work Problems:**Assigned Textbook Problems**

Throughout the semester, homework problems will be assigned from handouts. MINITAB lab homework problems will also be assigned from handouts. These handouts are available on WebCT. For more practice problems, students can look at the following from the textbook.

	Practice Problems	MINITAB Practice Problems
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.

The **Homework** should be submitted the first Saturday after completing the chapter **and no need for an announcement in advance**. Finally, no late homework will be accepted.