KING FAHD UNIVERSITY OF PETROLEUM & MINERALS
DEPARTMENT OF MATHEMATICS and STATISTICS
DHAHRAN, SAUDI ARABIA
STAT212: BUSINESS STATISTICS II (**101**)

Instructor: Dr. xxx **Office:** 5-xxx
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Teaching Hours: SMW 10:00-10:50am and SMW 1:10-2:00pm
Office Hours: SMW 10:55am-12:00 pm and 12.10pm-12.50pm or by appointment

Text and Package:

1. Basic Business Statistics: Concepts and Applications, 11th edition, by Berenson, M.L., Levine, D.M., and Krehbiel, T.C., Pearson-Prentice Hall (2009).
2. MINITAB Statistical Package will be used.
3. Scientific calculator with statistical functions in every class and exam.

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 homework, attendance, two Major exams and a final exam, as following

Activity	Weight
Attendance, homework and Quizzes	(2%+3%+5% = 10%)
Exam 1 (Chapters 9, 10, &12) Wed Nov 3, Bldg 54, time: 08:00 to 9:20 pm	20%
Exam 2 (Chapters 13, 14 & 15.1,15.3) Tues Dec 21, Bldg 59 rm 1001+others, time: 08:00 - 9:20 pm	20%
Lab work (MINITAB Quizzes & assignments)	10%
Final Exam (Comprehensive) Sat Jan 22, 7:00pm Venue: TBA	40%

General Notes:

- Students are required to carry **pens**, **binder** 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 in study and review for class, exams, etc
  - 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.
- 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.

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*	*Notes*
1 Sept 25-29	9.1-9.2	Hypothesis Tests for Means	
2 Oct 2-6	9.3, 9.4, 9.6	Hypothesis Tests for Means (continued), Tests for Proportions	Oct 6: last date to drop
3 Oct 9-13	10.1,10.2,	Tests for the Difference Between Two Means.	
4 Oct 16-20	10.3, 10.4, 12.5	Tests for Two Populations Proportions, F-Tests for Two Population Variances, Chi-squared Test for One Population Variances,	
5 Oct 23-27	12.1- 12.2,12.4	Chi-squared Tests for Proportions	
6 Oct 30-Nov 3	12.3, 12.10	Introduction to Contingency Tables, Goodness of Fit Tests, Review	Oct 30: Midterm grades reporting starts Nov 3: last date to drop with W
Wed Nov 3		Major Exam 1 (all sections of chap 9, 10, and 12 assigned earlier)	
7 Nov 6-10	13.1- 13.3	Simple Linear Regression	Nov 10: Midterm grades due
Eid Al-Adha	vacation	Thurs, Nov 11 to the End of Fri, Nov 26	
8 Nov 27-Dec 1	13.4-13.9	Simple Linear Regression (continued), Correlation, Inferences and Uses for Regression Analysis,	
9 Dec 4-8	14.1-14.4	Introduction to Multiple Regression Inferences on coefficients, Model testing	
10 Dec 11-15	14.5-14.6	Model testing (cont.) & Multiple Regression with Qualitative Variables	
11 Dec 18-22	15.1, 15.3, 15.4, 15.5	Nonlinear Relationships, Model Building	Dec 12: last date to withdraw all courses with W
Tues Dec 21		**Major Exam 2** (all sections of chap 13, 14, and 15.1 &15.3 assigned earlier)	
12 Dec 25-29	15.6, 16.1- 16.3	Aptness of the Model, Introduction to Forecasting, and Time Series	
13 Jan 1-5	16.4-16.7 16.9	Trend-fitting, Trend-Based Forecasting Techniques and Forecasting using smoothing methods,	
14 Jan 8-12	16.9, 16.8	Forecasting (cont.), Index Numbers	Jan 9: last date to withdraw all courses with WP/WF
15 Jan 15-19	16.8	Index Numbers (cont.) & Review	Jan 16: last day for classes
Sun Jan 22	Comprehensive	Final examination (7:00 pm, check registrar website for location)	

Important Notes:

- ✓ Students will be required to carry a scientific calculator ***with statistical functions*** to ***every class, quiz, and exam***.
- ✓ 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 (9) unexcused absences*** will automatically result in a grade of ***DN***. It is students' responsibility to provide valid written excuses on time before a ***DN*** report is issued.
- ✓ ***Attendance*** on time is ***very*** important. Therefore, ½ % will be reduced 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 lateness*** 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.
- ✓ ***Quizzes***: In general, there will be a ***quiz at the end of every chapter***.

Home Work Problems:

- ***Homework*** problems will be ***handed out*** to students
- The ***Homework*** should be submitted the first Saturday after completing the chapter ***and no need for an announcement in advance***.
- No late homework will be accepted.

Student Learning Outcomes:

Students are expected to

1. Know the correspondence between ***levels of measurement*** and ***statistical procedures.***
2. Know the ***assumptions*** underlying statistical procedures.
3. ***Select*** the appropriate statistical ***procedure*** for various applied business situations.
4. Accurately ***compute*** procedures ***manually*** and by ***MINITAB*** and ***interpret the results*** of these statistical procedures.
5. Finally, make the ***right*** decision.