

**KING FAHD UNIVERSITY OF PETROLEUM & MINERALS**  
**DEPARTMENT OF MATHEMATICS and STATISTICS**  
**DHAHRAN, SAUDI ARABIA**  
**STAT212: BUSINESS STATISTICS II (102)**

**Instructor:** Prof. Hassen Muttlak

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**Teaching Hours:** SMW 11:00-11:50am and 1:10-2:00pm

**Office Hours:** SMW 10 -10.50am and 12.10-1.05pm or by appointment

***Text and Package:***

1. Basic Business Statistics: Concepts and Applications, 11<sup>th</sup> 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, Quizzes and homework	(4%+4+4% = 12%)
Exam 1 (Chapters 9, 10, &12) <b>Tues March 29, Bldg 5 rooms102, 104 and 106; 7pm-9pm</b>	20%
Exam 2 (Chapters 13, 14 & 15) <b>Tues May 17, Bldg 5 rooms102, 104 and 106; 7pm-9pm</b>	20%
Lab work (MINITAB Quizzes & Assignments)	8%
Final Exam (Comprehensive) <b>Mon June 6, 7:00pm Venue: TBA</b>	40%

***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 or Instructor home page.
- ✓ **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.

# *Tentative Schedule*

<i>Week</i>	<i>Sections</i>	<i>Topics</i>	<i>Notes</i>
<b>1</b> Feb. 12-16	9.1-9.2	Hypothesis Tests for Means	
<b>2</b> Feb. 19-23	9.3, 9.4, 9.6	Hypothesis Tests for Means (continued), Tests for Proportions	<b>Feb. 15:</b> last date to drop
<b>3</b> Feb. 26- March 2	10.1-10.2	Tests for the Difference Between Two Means.	
<b>4</b> March 5-9	10.3- 10.4	Tests for Two Populations Proportions and F-Tests for Two Population Variances.	
<b>5</b> March 12-16	12.1-12.3	Chi-squared Tests	<b>March 19:</b> Midterm grades reporting starts
<b>6</b> March 19-23	12.5 and 12.10	Chi-squared test for variance, Introduction to Contingency Tables, and Goodness of Fit Tests	<b>March 23:</b> last date to drop with W
<b>Tues March 29</b>		<b>Major Exam 1</b> (all sections covered on chap 9, 10, and 12)	
<b>7</b> March 26-30	13.1- 13.4	Simple Linear Regression	
<b>8</b> April 2-6	13.5-13.9	Simple Linear Regression (continued), Correlation, Inferences and Uses for Regression Analysis	
<b>Midterm</b>	<b>vacation</b>	<b>April 9-13</b>	
<b>9</b> April 16-20	14.1-14.4	Introduction to Multiple Regression, Inferences on Coefficients	
<b>10</b> April 23-27	14.5-14.6	Model testing & Multiple Regression with Dummy Variables	<b>April 27:</b> last date to withdraw all courses with W
<b>11</b> April 30- May 4	15.1-15.3	Nonlinear Relationships	
<b>12</b> May 7-11	15.4- 15.6	Model Building and Aptness of the Model	
<b>Tues May 17</b>		<b>Major Exam 2</b> (all sections covered on chap 13, 14, and 15)	
<b>13</b> May 14-18	16.1-16.4	Introduction to Forecasting, Time Series and Trend-fitting	
<b>14</b> May 21-25	16.5-16.7	Auto Regressive Modeling, Choosing an Appropriate Forecasting Model and Forecasting for Seasonal Data	<b>May 25:</b> last date to withdraw all courses with WP/WF
<b>15</b> May 28-31	16.8	Index Numbers & Review	
<b>Mon June 6</b>	Comprehensive	Final examination ( <b>7:00 pm, check registrar website for location</b> )	