

**KING FAHD UNIVERSITY OF PETROLEUM & MINERALS**  
**DEPARTMENT OF MATHEMATICS and STATISTICS**  
**DHAHRAN, SAUDI ARABIA**  
**STAT212: BUSINESS STATISTICS II (163)**

**Instructor:** Raid Anabosi

**Phone:** 1851

**Office Hours:** UMTWR 8:30 AM – 9:30 AM or by appointment.

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***Text and Package:***

1. Basic Business Statistics: Concepts and Applications, 12<sup>th</sup> edition, by Berenson, M.L., Levine, D.M., and Krehbiel, T.C., Pearson-Prentice Hall (2012).
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 Labtest	4% + 6% + 5%
Exam 1 (Chapters 9, 10 & 12) Wednesday July 26, 2017 18:45 – 20:15 in	25%
Exam 2 (Chapters 13 & 14) Wednesday August 9, 2017 18:30 – 20:00 in	20%
Final Exam (Comprehensive) Monday August 21, 2017 19:00 – 21:30 in	40%

***Grade Assignment***

Score	50 – 54	55 – 59	60 – 64	65 – 69	70 – 74	75 – 79	80 – 86	87 – 100
Grade	D	D+	C	C+	B	B+	A	A+

***Student Learning Outcomes:***

Students are expected to

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

## *Tentative Schedule*

<i>Week</i>	<i>Sections</i>	<i>Topics</i>	<i>Notes</i>
<b>1</b> July 9 – July 13	9.1 – 9.4 10.1 – 10.2	Hypothesis Tests for Means and Proportions. Tests for the Difference Between Two Means	
<b>2</b> July 15 – July 20	10.3 – 10.4 12.1 – 12.5	Tests for Two Populations Proportions. Chi-squared Tests.	<b>Saturday July 15 (normal Monday)</b>
<b>3</b> July 23 – July 27	13.1 – 13.6	Simple Linear Regression	<b>Major 1 – July 26 18:45 – 20:15 ()</b>
<b>4</b> July 30 – Aug. 3	13.7 – 13.8 14.1 – 14.6	Simple Linear Regression (continued). Introduction to Multiple Regression	
<b>5</b> Aug. 6 – Aug. 10	15.1 – 15.4	Multiple Regression Model Building	<b>Major 2 – August 9 18:30 – 20:00 ()</b>
<b>6</b> Aug.13 – Aug.17	16.1 – 16.8	Time-Series Forecasting and Index Numbers	
<b>7</b> Aug.20 – Aug.24			<b>Lab Test – Aug. 20 Class time in 5-202</b>

## 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, **Eight (8) 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** equal to one absence.
- All contacts or announcements between the instructor and the students are supposed to be held on **Blackboard**, so the student **must** check his **Blackboard** inbox **at least once** a day.

## Home Work Problems:

- The **Homework** should be submitted the first Sunday after completing the chapter **and no need for an announcement in advance**.
- No late homework will be accepted.
- Chapter 9: 9.4 , 9.13 , 9.21 , 9.28 , 9.45 , 9.50 , 9.54 , 9.56 , 9.76
- Chapter 10: 10.6 , 10.10 , 10.12 , 10.18 , 10.21 , 10.27 , 10.35 , 10.44 , 10.46 , 10.50
- Chapter 12: 12.4 , 12.9 , 12.13 , 12.21 , 12.26 , 12.27 , 12.32 , 12.39 , 12.45
- Chapter 13: 13.3 , 13.9 , 13.15 , 13.21 , 13.24 , 13.29 , 13.33 , 13.37 , 13.41 , 13.47 , 13.55 , 13.61
- Chapter 14; 14.1 , 14.4 , 14.9 , 14.14 , 14.18 , 14.23 , 14.26 , 14.31 , 14.34 , 14.38 , 14.41 , 14.44
- Chapter 15: 15.1 , 15.6 , 15.8 , 15.13 , 15.14 , 15.16 , 15.21 , 15.25
- Chapter 16:

## General Notes:

- Students are required to carry **pens**, **binder** and a **calculator** with statistical functions to **EVERY lecture, quiz, and exam**.
- 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**.