

King Fahd University of Petroleum and Minerals

Department of Mathematics and Statistics

STAT-212: Business Statistics II (Term 161)

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Office Hours (Tentative): UMT. 10:10 am – 11:40 am, or by appointment

Course Description: 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.

Textbook, package and calculator:

1. Basic Business Statistics: Concepts and Applications, 12th edition, by Berenson, M.L., Levine, D.M., and Krehbiel, T.C., Pearson-Prentice Hall (2011).
2. MINITAB (<http://www.minitab.com/en-us/products/minitab/>)
3. Students must have their own calculators. Use of mobile phones or other devices is prohibited.

Assessment*

Activity	Weight
Class Participation (home works, quizzes, attendance, etc.) + Lab work	5%+10%
First Major Exam (Chapters 9 & 10) Week 5 (Wednesday 19-Oct-16 7:00 pm)	15%
Second Major Exam (Chapters 12 & 13) Week 9 (Wednesday 23-Nov-16 7:00 pm)	15%
Third Major Exam (Chapters 14 & 15) Week 13 (Wednesday 21-Dec-16 7:00 pm)	20%
Final Exam (Comprehensive) (Wednesday 18-Jan-17 8:00 am)	35%

Grade Assignment

Score	87 – 100	80 – 86.9	75 – 79.9	70 – 74.9	65 – 69.9	60 – 64.9	55 – 59.9	50 – 54.9	0 – 49.9
Grade	A+	A	B+	B	C+	C	D+	D	F

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.

Tentative Schedule

Week	Sections	Topics
01 Sep 18 - 22	9.1-9.2	Hypothesis Tests for Means
02 Sep 25 - 29	9.3 - 9.4	Hypothesis Tests for Means (continued), Tests for Proportions
03 Oct 02 - 06	10.1 - 10.2	Tests for the Difference Between Two Means.
04 Oct 09 - 13	10.3 - 10.4, 12.5	Tests for Two Populations Proportions, F-Tests for Two Population Variances, Chi-squared Test for One Population Variances,
05 Oct 16 - 20	12.1 - 12.2, 12.4	Chi-squared Tests for difference between Proportions
06 Oct 23 - 27	12.3	Introduction to Contingency Tables, Goodness of Fit Tests, Review
07 Oct 30 - Nov 03	13.1- 13.3	Simple Linear Regression
08 Nov 06 - 10	13.4-13.9	Simple Linear Regression (continued), Correlation, Inferences and Uses for Regression Analysis,
Nov 13 - 17 Mid Term Vacation		
09 Nov 20 - 24	14.1-14.4	Introduction to Multiple Regression Inferences on coefficients, Model testing
10 Nov 27 - Dec 01	14.5-14.6	Model testing (cont.) & Multiple Regression with Qualitative Variables
11 Dec 04 - 08	15.1, 15.3, 15.4, 15.5	Nonlinear Relationships, Model Building
12 Dec 11 - 15	15.6, 16.1- 16.3	Aptness of the Model, Introduction to Forecasting, and Time Series
13 Dec 18 - 22	16.4-16.7 16.9	Trend-fitting, Trend-Based Forecasting Techniques and Forecasting using smoothing methods,
14 Dec 25 - 29	16.9, 16.8	Forecasting (cont.), Index Numbers
15 Jan 01 - 08	16.8	Index Numbers (cont.) & Review
Jan 18, 2017		Final Exam (Wednesday at 8:00 AM)

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 are free to do his homework anywhere 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 Blackboard, so the student ***must*** check his Blackboard 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.