

DSCI 232-04 Business Statistics II

(TCFE 130)

Professor: Dr. Marvin Gonzalez (Dr. G)
Meeting Times: MTWRF: 10:00 TO 11:45 AM

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E-mail: gonzalezm@CofC.edu

Office Hours: DSCI 232 Business Statistics
Walk-In Tutoring Summer 1, 2017
Location: **CSL Science Lab**

NOTE: When you send me e-mail, please use a descriptive subject and start your email politely: Dear Professor Gonzalez: or Dear Dr. G.

Course Description

Advanced statistical analysis with applications in business and economics utilizing relevant computer software. Topics include business applications in descriptive and inferential statistics emphasizing selected topics such as simple and multiple regression, analysis of variance, time series analysis, and non-parametric techniques.

Prerequisite

MATH 104 (Elementary Statistics), which covered probability concepts, descriptive statistics, binomial and normal distributions, confidence intervals, and tests of hypotheses. Although knowledge on these topics is expected, we will briefly review the most important topics in class. HOWEVER, THE PROFESSOR WON'T EXPLAIN IN DETAIL WHAT WAS EXPECTED FROM THE STUDENT TO LEARN IN MATH 104, IT IS THE STUDENT RESPONSIBILITY TO REVIEW THE NECESSARY CONCEPTS TO DO SATISFACTORILY IN THIS COURSE.

School of Business Learning Goals:

Quantitative Fluency:

Students will gain experience and training on advanced functionality in Microsoft Excel to support information management and decision-making.

Learning Objectives:

1. Interpret business data using descriptive statistics techniques, including the use of spreadsheet functions.
2. Apply simple concepts of probability distributions to business problems, solving for statistics (given probabilities) and probabilities (given statistics) for normal, t-Student, Chi-Squared and F distributions.
3. Use statistical tests to make inferences about a population based on a sample.
4. Apply hypothesis testing for one and two populations to test for means and proportions in business applications.
5. Apply ANOVA and goodness of fit for testing for differences among multiple populations in business applications.
6. Apply Chi-Squared tests and regression for testing relationships between variables for business decision making.

Course Objectives:

1. Compute and interpret sample mean and standard deviation
2. Determine confidence intervals for the population mean and proportion
3. Test hypotheses about population mean and proportion
4. Test hypotheses comparing two population means
5. Test hypotheses comparing two population proportions
6. One-way analysis of variance
7. Simple linear regression
8. Multiple regressions
9. Chi square tests

Course Expectations

As your teacher I have the following responsibilities:

1. Come prepared to every class.
2. Plan my class so you can accomplish the objectives listed in the syllabus.

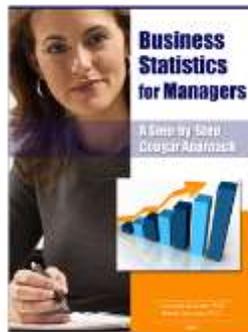
3. Treat you as responsible adults.
4. Consider that it is not always your fault if you don't understand the material.
5. Create a mutually respectful classroom environment.
6. Encourage you to ask and answer questions.

As students you have the following responsibilities:

1. Come prepared to every class.
2. Complete all work on time with proper thought.
3. Behave as responsible adults.
4. Consider that it is not always my fault if you don't understand the material.
5. Treat others with respect.
6. Be familiar with basic functionalities of Microsoft Excel. Use the support material: Excel Essentials using Microsoft Excel for Data Analysis and Decision Making (ISBN: 0-534-39309-8).
7. Learn the statistics software outside the classroom **with guidance from the professor during office hours (Excel).**
8. If you are not familiar with excel, it is YOUR responsibility to do the Excel Review by yourself during the first days of class. You are expected at least to have this knowledge for the class.

Text and Course Materials:

Quesada, G. and Gonzalez, M. 2017. "**Business Statistics for Managers: A Step-By-Step Cougar Approach**". *****Available in the Bookstore and University Books of Charleston*** **summer version CUSTOM WORKBOOK.****



Teaching Method

Lecture, assigned reading, hands-on exercises, and cases. We will use e-learning as a support tools in the course, therefore, students should have the responsibility to learn how to use Excel (use the CD videos to review Excel). The professor will assume you know ALL the tasks practiced in the review). **Any questions about excel, should be done outside the classroom to avoid distracting the class objectives.**

In-Class Exercises

Each class session will consist of a period of lecture/demonstration, followed by a period of in-class exercises. The exercises will consist of hands-on computer exercises, which will serve as the primary means for you to learn to use the software applications covered in this course, so take them seriously. **You should also spend at least 2 hrs. of review/study for every hour in class, for working on the exercises to fully understand the material covered in class. This time should allow you to understand the topics and apply them to solve real world problems.**

Grading and Evaluation:

Exam 1	20%
Exam 2	25%
Homework/WORK IN CLASS	40%
Quizzes (quizzes are everyday without previous notice)	15%

LETTER GRADE

> 94	A
90-93.99	A-
86-89.99	B+
83-85.99	B
80-82.99	B-
76-79.99	C+
73-75.99	C
70-72.99	C-
66-69.99	D+
63-65.99	D
60-62.99	D-
< 60	F (59.99 it is a F)

Policies and Procedures

Attendance Policies (non-negotiable policy)

- Students are expected to attend classes (It is summer!!!!). You cannot expect to have a thorough grasp of the material if you miss class. You are responsible for all material or assignments that are covered in class.
- **Students ARE NOT ALLOWED TO MISS A CLASS. If you miss a class a 2 points of your final grade will be deducted. NON-NEGOTIABLE. You don't have to come to the professor to excuse your absence, any absence counts for this rule!!!**
- Attendance will be taken randomly in different time periods of the class. If you are absent at the time of attendance signing, it is considered absence. If you come in late and the attendance has already been passed, you will be considered absent. **Don't bother to justify your absence since both justified and unjustified absences count for this rule.**
- **If you miss a session,** it is your responsibility to read on your own and ask your classmates for missing concepts.

Withdrawal Policy

The professor does not process Instructor Withdrawals for any reason.

Missing Exams/Quizzes

- **No makeup exams will be given.** It is impossible to make an equivalent exam without the student at either an advantage or disadvantage. If you miss an exam, with or without a legitimate excuse, you will have a zero for that exam. This policy is non-negotiable.
- **No makeup quizzes will be given.** This policy is non-negotiable. If you registered late for the course and you missed any quizzes, you will have zero on those missing quizzes. The professor cannot wait until the last day to add/drop to start the class.

SNAP Students/Special Accommodations/Athletes

- Students that require special accommodations for exams or athletes must talk to the professor no later than ONE week after the semester start and provide necessary documentation.
- **SNAP students are responsible to remind the professor one week in advance before each exam to allow the professor enough preparation time.** If a student fails to remind the professor one week in advance before each exam, the student will have the same evaluation time as the rest of the class for that particular exam.

College of Charleston Honor Code

All work that you submit in this course must be your own; unauthorized group efforts will be considered academic dishonesty. This is particularly important with regards to assignments and exams. The sharing or copying of program files (e.g., spreadsheets) is a form of plagiarism. Academic dishonesty is a serious offense, which may result in a failing grade for the course and/or report to the Honor Board for evaluation. If copying is involved, both parties will be judged equally guilty.

Professional Behavior Guidelines:

- **Tardiness:** Please arrive on time. If you are later than the start of the class for three times in the semester, it will count as one missed class. If you are late in a quiz day, you have until the other students finish the quiz, the time will not start when you come into the classroom.
- **Side Conversations:** Side conversations make it difficult for your classmates to actively listen and learn.
- **Sleeping:** falling asleep in class is not considered professional behavior.
- **Inattention:** Please don't read other material (chat, browsing the web, books) or study for other courses during my class. It's not polite. Please pay attention and join in the individual and group discussions. It will help you master the material.
- **Cell Phone:** Please set your cell phone to silent mode while you are in the class. Cell rings can disturb your classmates as well as me.

- **Printing:** Do not print outside work during class. I will turn off the printer at the beginning of class to prevent any interruption to the class.
- **Navigating or other computer tasks different than class matters:** It is not polite to be doing course work or assignments other than the ones required in class. Also, it is not polite to navigate internet or check email while in class. One point will be taken out from your final grade for every time you do this in class. If you finish your work before other classmates, you might ask for permission to do other work in the computer and until given, you should not do other work.

Miscellaneous Policies:

- Although I will try to maintain the class schedule and objectives, I may need to make adjustments. You are responsible to check OAKS CALENDAR for the most recent calendar of activities and dates. Don't ask the professor about quizzes or exams dates, since she will not give you as accurate information as the WebCT Calendar.
- **I do not give additional projects to increase one's grade before or after the exam(s). The professor does not round grades; a 59.9 total grade is an F.**

Complaints about Exams

- The professor encourages students to review in detail when exams are returned. You have two days after the graded evaluation was given to you to make any questions or complaints about it. If that time is passed, it means you have accepted the grade given.
- **No complaints are accepted for any reason if the one day period has passed (non-negotiable)**

ABOUT EXCEL

The student is expected to have some Excel knowledge. If you lack this knowledge, please review:

- How to install analysis tool-pack
 - <https://www.youtube.com/watch?v=uBHo7EVIGW0>
- How to enter simple formulas
 - <https://www.youtube.com/watch?v=DBcclAI0Axs>
- Troubleshooting with formulas
 - <https://www.youtube.com/watch?v=JST-JEZmf9I>
- How to create charts
 - <https://www.youtube.com/watch?v=c70cjQXWkFI>
- Pivot tables
 - <https://www.youtube.com/watch?v=Ldm3LH4b0z0>
- **These videos/tutorials are mandatory and students should be able to duplicate all the material learned in those videos after the first week of class. The professor will assume the topics explained in these videos/tutorials are the base knowledge of all students after the first week of class!!!**