

DSCI 232-001. Business Statistics II

Class Time: MTRWRF 8:30 to 12 (TCFE 130)

Professor: Dr. Marvin E Gonzalez, Dr G.
Center)

Office: BCTR 432 (Beatty

Office Hours: DSCI 232 Business Statistics
Walk-In Tutoring Maymester 2017
Location: **CSL Science Lab**
Monday, May 15--Wednesday, May 31

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 such topics as simple and multiple regression, analysis of variance, forecasting, quality control, and nonparametric techniques.

Prerequisite:

MATH 104 or MATH 250, 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 or MATH 250.**

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!!!

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.
7. **Problem Solving Ability (every day for solving statistics problems in business applications).**

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.**

Grading and Evaluation:

LETTER GRADE			
> 94	A	73-75.99	C
90-93.99	A-	70-72.99	C-
86-89.399	B+	66-69.399	D+
83-85.99	B+	63.-65.99	D+
80-82.99	B-	60-62.99	D-
76-79.99	C+	<60	F

Exam 1 (05/18, 90 minutes test)	15%
Exam 2 (05/30, 120 minutes test)	25%
Quizzes (Everyday, at least one per chapter)	10%
Assignments/Day work/participation	50%

You need a minimum of D- in this course before you are accepted into the School of Business majors. This is one of the admission classes for the School of Business; remember that you may take only nine hours of 300 level or above business classes. You cannot take the next class in the sequence if you make less than a D-. If you make less than a D- in this class and take the next class in the sequence (DSCI 300, DSCI 304 or DSCI 314) and pass it, you **WILL NOT BE ABLE TO MAJOR IN THE SCHOOL OF BUSINESS.** You cannot go back to this course in an attempt to earn a D- or higher, once you have passed the next class in sequence.

Attendance Policies (non-negotiable policy)

Students ARE NOT ALLOWED TO MISS A CLASS, IT SI SUMMER SESSION. ONE absent is a direct F. This policy is 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.

Missing Exams

No makeup exams will be given.

SNAP Students/Special Accommodations/Athletes

Students needing special accommodations should present official letters to the professor **within the ONE DAYS of class.**

No additional time will be given for quizzes. We measure in quizzes the ability of the student to respond within a specific time what is being tested, additional to answering the question correctly.

For all other tests, the student should bring the envelope to the professor and he/she should pick it up on the day of the test to bring to the testing center. The professor won't bring the test to the testing center, it is the student's responsibility. Students should use the testing center for additional time. If they decide to do the test with the rest of the class, no additional time will be given.

Use of Computers during class or exam times

Use of the lab computers is prohibited during class, unless instructed by the professor. Each of the lab computers is equipped with activity monitoring software, which links your computer (screen and all) to the professor's at the front of the class. The professor will use this software to monitor lab computer usage and the professor reserves the right to publicly display any lab computer's screen at any time to the rest of the class. The professor also reserves the right to take control over any lab computer using this software at any time during class. Therefore, ensure that any and all of your computer activity during class time is only as instructed by the professor.

College of Charleston Honor Code

Students can find the complete Honor Code and all related processes in the Student Handbook at http://www.cofc.edu/studentaffairs/general_info/studenthandbook.html.

During exams, students are **not allowed to go to the bathroom.** Students should leave their cell phones out of their reach. The same applies to any other electronic devices such as iPad.

Computer monitoring will also be reinforced during quizzes/exams.

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 exams dates, since he/she will not give you as accurate information as the OAKS Calendar.

**The professor does not give additional projects to increase students' grades before or after the exam(s).
The professor does not round grades, a 59.9 total grade is an F.**

No food or drinks allowed in the lab. This is a School-wide policy, non-negotiable

Complaints about Exams Grading

The professor encourages students to review in detail when exams/quizzes are returned. You have one week after the graded evaluation is turned back to you to make any questions or complaints about it. If that time is passed, it means you have accepted the grade given and no further complaints are accepted.

No complaints are accepted for any reason if the one-week period has passed (non-negotiable)

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 videos in Microsoft website to review Excel). The professor will assume you know ALL the tasks practiced in the videos on page 1). **Any detailed questions about excel, should be done outside the classroom to avoid distracting class objectives.**

Topical Coverage

1. Introduction. Descriptive Statistics.
2. Continuous Probability Distributions: Normal, t-Student, Chi-Squared and F.
3. Interval Estimation.
4. Hypothesis Testing – One Population
5. Hypothesis Testing – Two Populations
6. ANOVA Single Factor
7. Goodness of Fit Test
8. Test of Independence
9. Regression

You will find the most updated schedule in OAKS calendar!