Professor information
Name: Luis A. J. Borges, Ph.D.  
Office: Home in Milwaukee  
E-mail: lajborges@gmail.com  
Office hours: MWF: 3:00 – 5:00 pm and by appointment  
Telephone: (773) 469-1006

Class Information
MWF – 11:00 -11:50 AM

Course Textbook
Don't buy the book before the first day of class.

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 as described in the course objectives section.

Prerequisites
MATH 104 - Elementary Statistics or MATH 250 - Statistical Methods I. MATH 104 or 250 is a prerequisite for DSCI 232. Before taking this course: all School of Business majors must earn a C- or better in MATH 104 or 250 to continue with a major in the School of Business.

School of Business Learning Goals
• COMMUNICATION SKILLS: Students will demonstrate the ability, via both written and spoken word, to effectively present, critique, and defend ideas in a cogent, persuasive manner.
• QUANTITATIVE FLUENCY: Students will demonstrate competency in logical reasoning and data analysis skills.
• GLOBAL AND CIVIC RESPONSIBILITY: Students will be able to identify and define social, ethical, environmental and economic challenges at local, national and international levels. Students will also be able to integrate knowledge and skills in addressing these issues.
• INTELLECTUAL INNOVATION AND CREATIVITY: Students will be able to demonstrate their resourcefulness and originality in addressing extemporaneous problems.
• SYNTHESIS: Students will demonstrate the ability to integrate knowledge from multiple disciplines incorporating learning from both classroom and non-classroom settings in the completion of complex and comprehensive tasks.

ATTENTION
This class is a pre-requisite for many other classes in the School of Business. Make sure you know how this class is a pre-requisite for your other classes.
Course Objectives
The main objective is to provide students with tools to improve their analytical skills and help them as future professionals have a better decision-making process in all business areas. At the end of this course, students will have learned the following analysis:
1. Compute and interpret sample mean and standard deviation
2. Build confidence intervals for the population mean, variance and proportion
3. Test hypotheses about the population mean, variance and proportion
4. Test hypotheses comparing two population means/variances/proportions
5. Perform a one-way analysis of variance
6. Estimate simple linear regressions
7. Estimate multiple regressions

Teaching Method
In-class, online videos, and hands-on exercises. We will use e-learning as a support tool in the course. Therefore, students should have the responsibility to learn how to use Excel. Any questions about excel should be done outside the classroom to avoid distracting the class objectives.

Homework assignments
Homework assignments consist of a list of exercises students should work on to provide an opportunity for students to practice statistics and help learn them. Homework assignments are all online versions of the textbook through MindTap.

How can I be successful in this class?
Here are some guidelines that increase your likelihood of success in this class:

- **Attend all classes.** Business statistics is very challenging, and attending classes provide an excellent opportunity to learn more.

- **Have total attention in class.** If you do not pay attention to all details discussed in classes, it will be more difficult for you to solve problems and succeed.

- **Take notes.** This class is intense in the content, and I communicate many details through different examples that might not be in the textbook or slides. If you do not take notes, it will be difficult to remember later.

- **Constantly check Oaks and Mind Tap.** Build the habit of looking daily at our Oaks and Mind Tap page to check for announcements, deadlines, and other information.

- **Work on homework assignments in a few portions every day.** Do not wait until the last few days to work on the homework assignments. Do not work on only one block of time on the homework. Instead, work a few portions every day. Statistics is like a language; you must practice every day to remember. The suggestion is to work 2 hours every day.
- **Read the textbook before coming to the class.** There are many terms and new information in every class. You will be more prepared to understand the videos if you read the textbook.

- **Make use of handouts, videos, and other resources.** I prepare handouts and post links to my videos and other videos to help you summarize and have an overview of the statistical methods. Also, you can make use of tutors available to help you.

## Class Policies

### Exam Policy

Exams are your opportunity to score points by showing your knowledge, understanding, and skills. The primary purpose of exams is to evaluate your ability to understand and apply statistical tools to solve business problems. These are the guidelines to be followed during exams:

- Exams are closed books.
- Turn off your cell phones and all other electronic devices.
- If a student arrives late to an exam or continues working after time is called, the exam will not be accepted for grading.
- Students are not allowed to use any outside materials or leave the classroom during the exams unless specifically authorized by the instructor.
- All exams are to be taken at the scheduled times.
- **No make-up exams will be given except for documented emergencies.**

### Attendance Policy

Since this is an interactive class with significant student participation, attendance to all class meetings is expected. Attendance sheets will be used, and it is your responsibility to sign them each class meeting. Absences will result as follows:

Absences #1, 2: Allowed for any and all reasons. No need to explain.
Absence #3, 4: 2 points deducted from your final course grade per class missed.
Absence #5 and 6: 4 more points off your final course grade per each class missed.

**Students with more than six unexcused absences will be assigned an F grade.**

Presence and absence will be given for each 1h15min class. Ex.: A student leaving at 7:00 pm, after attending class from 5:30 pm, will receive one absence. Students missing one entire class will receive two absences.

**Important: Do not schedule personal appointments during class times, such as doctor visits or other meetings.**

Non-emergency doctor visits are considered unexcused absences. Students are responsible for all announcements and assignments made in class and all course material distributed and covered, regardless of their presence or absence for any class.

## College of Charleston Honor Code and Academic Integrity

Lying, cheating, attempted cheating, and plagiarism are violations of our Honor Code that, when identified, are investigated. Each incident will be examined to determine the degree of deception involved.
Incidents, where the instructor determines the student’s actions are related more to a misunderstanding will be handled by the instructor. A written intervention designed to help prevent the student from repeating the error will be given to the student. The intervention, submitted by form and signed by the instructor and the student, will be forwarded to the Dean of Students and placed in the student’s file.

Cases of suspected academic dishonesty will be reported directly by the instructor and/or others having knowledge of the incident to the Dean of Students. A student found responsible by the Honor Board for academic dishonesty will receive a XF in the course, indicating failure of the course due to academic dishonesty. This grade will appear on the student’s transcript for two years after which the student may petition for the X to be expunged. The F is permanent. The student may also be placed on disciplinary probation, suspended (temporary removal) or expelled (permanent removal) from the College by the Honor Board. Students should be aware that unauthorized collaboration—working together without permission—is a form of cheating. Unless the instructor specifies that students can work together on an assignment, quiz and/or test, no collaboration during the completion of the assignment is permitted. Other forms of cheating include possessing or using an unauthorized study aid (which could include accessing information via a cell phone or computer), copying from others’ exams, fabricating data, and giving unauthorized assistance. Research conducted and/or papers written for other classes cannot be used in whole or in part for any assignment in this class without obtaining prior permission from the instructor. Students can find the complete Honor Code and all related processes in the Student Handbook at http://studentaffairs.cofc.edu system/studenthandbook/index.php

Classroom Behavior
The Classroom Code of Conduct (from the President’s Advisory Committee) covers specific principles of civil conduct expected in a college classroom:
• Turn off cell phones and all other electronic devices. Do not use computers for tasks unrelated to the class. Using the internet during class is distracting to the professor and other students.
• Never get late or leave early during class.
• Do not talk with classmates while the professor (or another student) is speaking. Visible and noisy signs of restlessness are rude and disruptive to others. (Student Handbook, pp. 58-59)

Oaks
OAKS, including Gradebook, will be used for this course throughout the semester to provide the syllabus, class materials, and grades for each assignment, which will be regularly posted.

Face-to-face courses when students are quarantined/isolated due to Covid-19
If one or more students are absent for an extended period of time due to COVID-19 (quarantine or isolation), instructors may, at their discretion, conduct the class exclusively online via OAKS for the duration of student quarantine/isolation, record class lessons to share with students, or choose an alternate accommodation that provides the impacted student(s) with the opportunity to continue in the course. The specific accommodation will vary depending on the number of students affected, the expected duration of their absence, and the class’s needs.
Inclement Weather, Pandemic or Substantial Interruption of Instruction
If in-person classes are suspended, faculty will announce to their students a detailed plan for a change in modality to ensure the continuity of learning. All students must have access to a computer equipped with a web camera, microphone, and Internet access. Resources are available to provide students with these essential tools.

Withdrawal Policy
The professor does not process Instructor Withdrawals for any reason.

Resources
Center for Student Learning:
The Center for Student Learning’s (CSL) academic support services assists in study strategies, speaking & writing skills, and course content. Services include tutoring, Supplemental Instruction, study skills appointments, and workshops. Students of all abilities have become more successful using these programs throughout their academic careers and the services are available to you at no additional cost. For more information regarding these services, please visit the CSL website at http://csl.cofc.edu or call (843) 953-5635.

Students with Disabilities
The College will make reasonable accommodations for persons with documented disabilities. Students should apply at the Center for Disability Services / SNAP in the Lightsey Center, Suite 104. Students approved for accommodations are responsible for notifying me as soon as possible and contacting me one week before the accommodation is needed.

Grading
There will be exams, quizzes, and homework. Grade points are given according to the following distribution:

<table>
<thead>
<tr>
<th>Evaluation</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exam 1</td>
<td>35</td>
</tr>
<tr>
<td>Final Exam</td>
<td>35</td>
</tr>
<tr>
<td>Two Quizzes</td>
<td>15</td>
</tr>
<tr>
<td>Homework assignments</td>
<td>15</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>100</strong></td>
</tr>
</tbody>
</table>

Final grades will be assigned according to the following grading scale:

<table>
<thead>
<tr>
<th>Points</th>
<th>Letter Grade</th>
<th>Points</th>
<th>Letter Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 94</td>
<td>A</td>
<td>73 - 75.99</td>
<td>C</td>
</tr>
<tr>
<td>90 - 93.99</td>
<td>A -</td>
<td>70 - 72.99</td>
<td>C -</td>
</tr>
<tr>
<td>86 - 89.99</td>
<td>B +</td>
<td>66 - 69.99</td>
<td>D +</td>
</tr>
<tr>
<td>83 - 85.99</td>
<td>B</td>
<td>63 - 65.99</td>
<td>D</td>
</tr>
<tr>
<td>80 - 82.99</td>
<td>B -</td>
<td>60 - 62.99</td>
<td>D -</td>
</tr>
<tr>
<td>76 - 79.99</td>
<td>C +</td>
<td>&lt; 60</td>
<td>F</td>
</tr>
</tbody>
</table>