

DSCI 232-03 Business Statistics

General Course Information:

Meeting Times and Location: Monday, Wednesday, Friday 10:00-10:50 am
Beatty 218

Professor Information: Dr. Olga Biedova
Department of Supply Chain and Information Management
Beatty 314 and online at <https://cofc.zoom.us/j/7647146892>
biedovao@cofc.edu

Office Hours: MW: 11:00 am - 12:30 pm (*in-person in Beatty 314*)
Th: 10:00 am - 12:00 pm (*virtually via Zoom: <https://cofc.zoom.us/j/7647146892>*)

Textbooks and Software:

- **Required Textbook:** *Business Statistics: Communicating with Numbers, 3rd edition*, by Sanjiv Jaggia and Alison Kelly, McGraw-Hill publishers, 2018
- **McGraw-Hill Connect:** Connect is the on-line homework manager that accompanies DSCI 232. Please see the Connect registration handout for information about registration.
- **Required Software:** Microsoft Excel

Calculators: A basic calculator will be necessary for homework, quizzes and exam. A calculator with statistical functions would be useful, but is not required. **Phones may not be used as calculators on quizzes and exams.**

Prerequisites: MATH 104 - Elementary Statistics or MATH 250 - Statistical Methods I.

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 sampling, confidence intervals, hypothesis testing, analysis of variance, and linear regression.

Learning Objectives

Students will

- Understand the basic concepts of probability, descriptive and inferential statistics.
- Recognize business applications where statistics can be applied.
- Become fluent in the use and understanding of statistical terminology.
- Develop and use sampling distributions for means and proportions.
- Apply inferential statistics using confidence interval estimation and hypothesis testing.
- Create, run and interpret linear regression models and their output.
- Perform one-way analysis of variance.
- Interpret and communicate statistical results.

- Be aware that statistical concepts transcend national boundaries.
- Recognize the impact of their analyses on the broader society and the attendant ethical obligations to perform their work responsibly.

The 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.

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.

Method of Teaching/Learning

The majority of lectures will be delivered in in-person format: all of the students are expected to be present in class, lectures are not recorded or transmitted online. A few remaining classes will be delivered via Zoom (at the regular time of the class).

If the circumstances change and the face-to-face lectures are no longer possible and/or safe, the class will switch to the synchronous online meetings.

Grading

| | |
|----------------------|-----|
| Class Participation | 5% |
| Homework | 10% |
| Data Assignments (2) | 10% |
| Quizzes (4) | 50% |
| Final Exam | 25% |

Grading Notes:

Participation: Students should plan on actively engaging in class. The class contribution component will reflect the individual student's **constructive** contribution during lectures, including answering questions, writing problem solutions on the classroom board, participation in the discussions,

engaging with the material posted on OAKS. Students should come to class (or join remotely) on time and be ready to participate. Non-constructive contributions include disrespectful or disruptive behavior, taking unnecessary breaks during class, and the use of cell phone, text messaging, e-mailing or computers for non-class activities.

Homework: Homework assignments will be done in CONNECT. Homework assignments are worth 10 points; problems can be attempted an unlimited number of times. Late submissions are accepted with a penalty of 10% for each day after the deadline.

Data Assignments: There will be two assignments done using Excel. The average of the two grades will be 10% of the overall grade. Late submissions are accepted with a penalty of 25% for each day after the deadline.

Quizzes: Four quizzes are worth 50% of the final grade. They will be given in class. One lowest quiz grade will be dropped and the remaining three will be weighted equally. There are no make-up quizzes. If you are more than 5 minutes late for class, you cannot take the quiz.

Final Exam: The final exam is cumulative and is worth 25 points. It must be taken at the time assigned by CofC for our time block

Final Exam: 12/10 8:00-10:00 am

Quizzes and the final exam are closed book, closed notes, closed phone, with no other browser windows or tabs open on your computer. Quizzes and the final exam are timed. Additional software may be enforced in order to facilitate these rules.

There is no “extra credit” work in this course. No work for any additional credit will be given at the end of semester. You are responsible to keep up with the course material.

Course Policies

Attendance Policy

Students are expected to attend all live class sessions (playing back the recording of the class is not attending). Your success in this class depends on your participation and participation of your fellow students.

The absence memo process will not be used this academic year. I will not need to provide me with documentation for absences. However, I ask you to tell me directly as soon as possible any time you miss class.

Late Work

Unless otherwise noted, all assignments are due on the due date and time listed in the OAKS calendar or by that graded item. All the deadlines are stated in the Eastern Time zone. If you are in a different time zone, make sure you keep track of the time difference and submit an assignment on time. Do not wait until the last minute to submit your assignments, save your work often, and keep its backup in on external source (e.g. cloud services).

If *extraordinary* circumstances arise (e.g., hospitalization) or family emergency, or network outage, notify me as soon as possible so arrangements can be made.

Communication

Communication will occur in multiple ways: Zoom, face-to-face meetings, OAKS announcements, OAKS content, OAKS gradebook, OAKS discussions, and CofC email.

OAKS, including Gradebook, will be used for this course throughout the semester to provide the syllabus and class materials and grades for each assignment, which will be regularly posted. It is the student's responsibility to ensure that all grades entered are correct. If I have made a mistake, the student has **two weeks** from when the assignment/exam was graded to notify me of the mistake.

Email

Typically, I will respond to your email within 24 hours, although my response time will be slower on weekends. If you do not receive a reply within 24 hours, please re-send your message. Please start with **[DSCI 232]** in the title field, message without this portion may be ignored or delayed.

Technical Difficulties

If you have questions or problems related to the course, please follow the communication procedures noted above. If you have technical problems, please contact Student Computing Support or Helpdesk using these methods:

Student Computing Support

843-953-5457

studentcomputingsupport@cofc.edu

blogs.cofc.edu/scs

Helpdesk

843-953-3375

helpdesk@cofc.edu

<https://help.cofc.edu>

It's important to resolve technical problems swiftly, so do not delay getting support. Computer failure or unavailability does not constitute an excuse for not completing assignments.

Class Climate and Etiquette

To maintain a respectful and supportive environment, please uphold to the rules described in the Student Handbook as well as the rules of netiquette when joining the class online. [Netiquette](#) is network etiquette, the do's and don'ts of online communication.

- Be kind and ethical. Sexist, racist, and homophobic language will not be tolerated.
- Be aware of how your communication may be perceived by others. Ask yourself if your message or comment may be misinterpreted and offend someone.
- Be forgiving. Try first asking clarifying questions rather than attacking. But if you experience any questionable or outright inappropriate behavior from your colleagues, please let me know.

- Respect disagreement.
- Share your knowledge.
- Help each other.
- Cite your sources.

Continuity of Learning

This class will include a variety of online and technology enhanced components to reinforce continuity of learning for all enrolled students.

During the course of class, in response to the development of COVID-19, the course delivery mode could be switched among face-to-face, online, or hybrid. The students need to make sure that their study will not be interrupted by the change of the delivery mode.

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 needs of the class.

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.

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 both 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 XXF 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 XX 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://deanofstudents.cofc.edu/honor-system/studenthandbook/index.php>

Disability Accommodation

1. Any student eligible for and needing accommodations because of a disability is requested to speak with the professor during the first two weeks of class or as soon as the student has been approved for services so that reasonable accommodations can be arranged.
2. The College will make reasonable accommodations for persons with documented disabilities. Students should apply for services at the Center for Disability Services/SNAP located on the first floor of the Lightsey Center, Suite 104. Students approved for accommodations are responsible for notifying me as soon as possible and for contacting me one week before accommodation is needed.
3. This College abides by Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act. If you have a documented disability that may have some impact on your work in this class and for which you may require accommodations, please see an administrator at the Center of Disability Services/SNAP, (843) 953-1431 or me so that such accommodation may be arranged.

For more information, you may visit the disability services website: <http://disabilityservices.cofc.edu/>

Center for Student Learning:

The Center for Student Learning's (CSL) academic support services provide assistance 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 career 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.

Mental & Physical Wellbeing:

At the college, we take every students' mental and physical wellbeing seriously. If you find yourself experiencing physical illnesses, please reach out to student health services (843.953.5520). And if you find yourself experiencing any mental health challenges (for example, anxiety, depression, stressful life events, sleep deprivation, and/or loneliness/homesickness) please consider contacting either the Counseling Center (professional counselors at <http://counseling.cofc.edu> or 843.953.5640 3rd Robert Scott Small Building) or the Students 4 Support (certified volunteers through texting "4support" to 839863, visit <http://counseling.cofc.edu/cct/index.php>, or meet with them in person 3rd Floor Stern Center). These services are there for you to help you cope with difficulties you may be experiencing and to maintain optimal physical and mental health.

Food & Housing Resources:

Many CofC students report experiencing food and housing insecurity. If you are facing challenges in securing food (such as not being able to afford groceries or get sufficient food to eat every day) and housing (such as lacking a safe and stable place to live), please contact the Dean of Students for support (<http://studentaffairs.cofc.edu/about/salt.php>). Also, you can go to <http://studentaffairs.cofc.edu/student-food-housing-insecurity/index.php> to learn about food and housing assistance that is available to you. In addition, there are several resources on and off campus to help. You can visit the Cougar Pantry in the Stern Center (2nd floor), a student-run food pantry that provides dry-goods and hygiene products at no charge to any student in need. Please also consider reaching out to Professor ABC if you are comfortable in doing so.

Regarding Student Use Of Course Materials. Lectures and course materials, including PowerPoint presentations, recorded videos, outlines, tests, and similar materials are protected by copyright even if there is no copyright notice on the material. You may take notes and make copies of course materials for your own use. You may NOT reproduce or distribute these materials publicly, without the instructor's express written consent.

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

| Points | Letter Grade | Points | Letter Grade |
|------------|--------------|------------|--------------|
| > 94 | A | 73 - 75.99 | C |
| 90 - 93.99 | A - | 70 - 72.99 | C - |
| 86 - 89.99 | B + | 66 - 69.99 | D + |
| 83 - 85.99 | B | 63 - 65.99 | D |
| 80 - 82.99 | B - | 60 - 62.99 | D - |
| 76 - 79.99 | C + | < 60 | F |