Instructor: Joshua Gorsuch
Email: jkgorsuc@uncg.edu
Office Hours: As this is an online course, there are no scheduled office hours. If necessary, appointments can be made.

Course Description
Introduction to statistical methods with applications in economics and business. Topics include descriptive statistics, probability, statistical inference, correlation, and regression. Emphasis on problem solving with microcomputer applications.

Course Objectives
1. Understand sampling methods, distributions, and the Central Limit Theorem.
2. Calculate and interpret common measures of central tendency and dispersion, and be able to determine the presence and direction of skew.
3. Use probability and probability distributions to assess the likelihood of events.
4. Estimate parameters of common discrete and continuous probability distributions.
5. Calculate and interpret confidence intervals for population means and proportions.
6. Perform hypothesis tests and understand the consequences of error in tests.

Additionally, it is important to be able to use tools such as Excel to do basic statistical analysis.

Materials
The textbook for this course is Business Statistics (Second Edition) by Robert Donnelly. Other readings may be posted on Canvas. For students looking for additional materials, including worked examples, Schaum’s Outlines are generally suitable, just be sure to use an introductory level version, as some will be more advanced than the material in this course.

Grades
Weights:
Homework……15%
Quizzes………..15%
Midterms………40%
Final Exam…….30%

Scale:
A+……97-100  A ….. 93-97  A-…….90-93
B+……87-90   B …..83-87  B-……80-83
C+……77-80   C …..73-77  C- …..70-73
D+……67-70   D …..63-67  D- …..60-63
F ……..0-60
Assignments
Assignments will be submitted in Canvas. Late assignments will not be accepted and will receive a grade of 0. Any student that cannot complete an assignment for a legitimate reason must produce documentation and should contact the instructor in advance. Note that computer failure is not considered a legitimate reason.

Homework:
Expect to have homework assignments roughly every two weeks, with 7 in total. The lowest homework grade will be dropped.

Quizzes:
There will be 3 quizzes assigned over the semester. Each quiz will be available for 3 days. Quizzes will not be timed, and will cover several chapters.

Exams:
There will be 2 midterms and a final exam. The midterm with the higher score will be more heavily weighted in the course grade, with the worse midterm being worth 15% and the better midterm being worth 25%. Each exam will be available for 2 days. Using the assigned texts and your own notes is allowed, but the exams are timed, so do not rely on referencing the material too much, or you risk running out of time before finishing. The final exam will be cumulative.

Policy
The Academic Integrity Policy is available here. Students are expected to know and abide by it. Other Faculty and Student Guidelines are here.

Other
1. Note that the class uses Eastern Standard Time.
2. This is an online course, and students will manage their own time. As a rule of thumb, expect to spend a minimum of six hours a week on this course. Also note that even if you feel comfortable with the material, you will retain it better if you practice consistently.
3. Expect to have a technical problem at some point in the course, and have a backup plan. The power will go out at someone’s house, someone will have connectivity problems, and someone’s hard drive will fail for no apparent reason. Also, the browser you use could update and Canvas may not display properly. You should be able to work around these problems as long as you don’t wait to do an assignment until the last minute.
4. You should be able to save your progress while taking some assignments. Do this frequently.
5. Be attentive. Check Canvas often and don’t let yourself fall behind in the material.
6. The best way to contact me is through Canvas, as it is convenient to keep messages about this course collected in one place.
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Final Exam: Saturday, May 6