Course Information
Instructor: Joshua Gorsuch
Office: Bryan 470
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Office hours: 11:30-12:30PM Tuesdays and Thursdays
Class time: 12:30-1:45PM Tuesdays
Class location: Bryan 110

Course Description
This is an introductory statistics course which starts by presenting a range of numerical and graphical tools to describe and summarize data. These tools, together with the concepts of randomness, probability and sampling, are then used to conduct statistical inference: the process of learning about a larger set of data (the "population") using only a limited number of observations.

While no prior knowledge of statistics is required, you are expected to be familiar with basic algebra, equations and inequalities, linear functions and graphs.

Learning Objectives
- Interpret and calculate commonly used descriptive statistics, including measures of central tendency and dispersion
- Use probabilities and probability distributions to calculate the likelihood of uncertain events
- Understand the notions of sampling, sampling distributions, and the central limit theorem
- Calculate and interpret confidence intervals
- Understand and conduct hypothesis tests and understand the various types of errors that can occur
- Understand correlation and regression analysis to quantify the relation between two variables

Course Materials
The textbook for this course is Essentials of Modern Business Statistics with Microsoft Excel (7th ed.) by Anderson, Sweeney, and Williams (Cengage). All students are required to purchase access to MindTap, Cengage's online learning platform that will be used for homework assignments. You can choose from one of two options, available at the UNCG bookstore:
1. **Digital-only option**: MindTap Business Statistics, 1 term (6 months) printed access card for Anderson/Sweeney/Williams' *Essentials of Modern Business Statistics with Microsoft Excel*. (This includes access to an online-only digital copy of the textbook)

2. **Bundle option**: MindTap printed access card + loose-leaf textbook version of *Essentials of Modern Business Statistics with Microsoft Excel*. You may also purchase MindTap access directly from Cengage: the first time you try to access a homework assignment in Canvas, you will be prompted to either enter the access number you purchased from the bookstore, or to purchase access directly from Cengage using a credit card.

**Grading**

Your overall course grade is based on the following components and weights.

- Homework assignments: 15%
- Unit check-in quizzes: 10%
- In-class exercises/attendance: 10% (one miss without penalty – see below)
- Lowest midterm exam: 15%
- Highest midterm exam: 20%
- Final exam: 30%

**Note**: You can miss only one class meeting during the semester without incurring a grade penalty. For each additional missed class, 3% points will be subtracted from your overall course grade. For example, if a student misses 3 class meetings, 6% points will be subtracted from the overall course grade.

Your final course letter grade will be assigned based on the following scale.

- 93% and above: A
- At least 90% but less than 93%: A-
- At least 87% but less than 90%: B+
- At least 83% but less than 87%: B
- At least 80% but less than 83%: B-
- At least 77% but less than 80%: C+
- At least 73% but less than 77%: C
- At least 70% but less than 73%: C-
- At least 67% but less than 70%: D+
- At least 63% but less than 67%: D
- At least 60% but less than 63%: D-
- Less than 60%: F

**Note**: Grades are not rounded up. For example, a score of 89.99% is a B+. Please also note that the way Canvas weighs assignments in its totals columns is points driven and not accurate. At the end of the semester grades will be determined based on the weight guidelines in this syllabus.
Homework Assignments

This course consists of 11 Learning Area units, organized by topic. Each unit comes with its own homework assignment. You will work on the assignments in MindTap, which can be accessed through Canvas. The due date for each assignment will be clearly marked in Canvas and MindTap. **Late submissions will not be accepted under any circumstance.** In particular, unexpected life events, internet outages and problems with your computer or accessing MindTap are not valid excuses. Make-up opportunities will not be given. When working on the assignments, plan your time accordingly and do not wait until the last moment.

Unit Check-In Quizzes

Students are required to go through the online Learning Area at the beginning of each unit. A number of multiple choice “check-in” questions are embedded within each Learning Area unit to ensure that you are reading and understanding the material. The questions are replicated in the same order in Canvas as a unit check-in quiz. The Canvas check-in quizzes must be completed by 11:59PM the night before your class meeting on that unit. Due dates are clearly marked in Canvas. **Late submissions will not be accepted under any circumstance.** In particular, unexpected life events, internet outages and problems with your computer or accessing MindTap are not valid excuses. Make-up opportunities will not be given. When working on the assignments, plan your time accordingly and do not wait until the last moment.

In-Class Exercises and Attendance

Class attendance is **mandatory.** On non-exam days, each class meeting will have an exercise that must be turned in. If you turn in all of the exercises and attend all of the classes, you will earn 100% on this component of the course, and this will make up 10% of your course grade.

Each student is allowed one missed exercise/class without incurring a grade penalty. **Each missed exercise/class after the first will result in a 3% point reduction of the final course grade.** For example, if a student misses three class exercises and has a class average of 82% (B-), this would result in a new class average of 82–6= 76% (C). If you miss more than one class and you request consideration for waiving the grade penalty, you must provide documented evidence that you had a legitimate reason (e.g., medical) for being absent. This evidence must be provided **for all missed classes.**

Exams

This course has two midterm exams and a cumulative final exam. The midterm exams will be held on **February 19th** and **April 2nd** at the regular class time and location. The final exam will be held on **Friday, May 3rd, 3:30-6:30PM,** with the **location to be announced.** The exam dates are also listed in Canvas. Put them in your calendar immediately because there are no make-up exams and very few acceptable excuses.
for missing one. Acceptable excuses include a documented death in the family, a documented university-sponsored event or excursion, a documented military obligation, or a serious illness documented by a doctor. Acceptable excuses must be approved before the scheduled exam date. Showing up with a doctor’s note after the exam date without notifying the instructor in advance is not an acceptable excuse.

Exams are all closed-book, closed-note, and closed-friend/neighbor. You may bring a calculator to the exam, but this has to be a basic scientific calculator or one that is even less sophisticated. **Graphing calculators and programmable calculators are not allowed.** Cell phones cannot be used as calculators. You must bring a red scantron sheet purchased from the UNCG bookstore to each exam.

**Academic Integrity Policy**

Students are expected to know and abide by the Honor Code in all matters pertaining to this course. Violations of this code will be pursued in accordance with the code. UNCG’s academic integrity policy can be accessed at: [https://osrr.uncg.edu/academic-integrity/](https://osrr.uncg.edu/academic-integrity/)

**Faculty and Student Guidelines**

Please familiarize yourself with the Bryan School’s *Faculty and Student Guidelines*. These guidelines establish principles and expectations for the administration, faculty, staff, and students of the Bryan School of Business and Economics. The link for this document is: [https://bryan.uncg.edu/wp-content/uploads/2017/08/Faculty-and-Student-Guidelines-2018-2019.pdf](https://bryan.uncg.edu/wp-content/uploads/2017/08/Faculty-and-Student-Guidelines-2018-2019.pdf)

**Additional Course Policies**

- Do not talk to your neighbors during class unless we are working on a group exercise. It distracts the students around you and it distracts me. It will not be tolerated. If you talk during class, I reserve the right to ask you to leave the room and count it as a class absence.

- **Please be on time and remain in class until class is dismissed.** Arriving late or leaving too early is disruptive and can result in being counted as absent for class.

- Laptops may **not** be used in class, since they distract you and students around you. An exception may occur if a laptop is required for an in-class assignment. If this is the case, it will be specifically noted by the instructor.

- Please make sure that all cell phones are shut off and stowed away during class. If I see you using your phone, I reserve the right to ask you to leave the room and count it as an absence.
I encourage you to work together on homework assignments, although every student is responsible for submitting his/her own answers to each graded assignment in order to receive credit.

When you begin to feel lost, be proactive! I am more than happy to answer questions during class and during office hours.

You are expected to spend a minimum of 5 hours each week reading, reviewing, and completing homework assignments and check-in quizzes outside of class. If this is not feasible for you given your other time commitments, perhaps this is not the class for you.

Student Resources

Students are encouraged to seek help from the instructor, should they need it. Using office hours is the primary way to get extra help. You may also find it helpful to set up or participate in peer study groups. In addition, UNCG offers academic support for this class through the Tutoring and Academic Skills Program (TASP). Services include tutoring, individual academic skills sessions, and workshops on study skills. TASP offices are open from 8:00 am- 5:00 pm, Monday through Friday, and some evening, weekend, or online services are available. You can find more information and request assistance by visiting studentsuccess.uncg.edu. All TASP services are free of charge. The deadline to request tutoring assistance for the spring term is Friday, March 1.

The UNCG student chapter of the National Association for Business Economics (NABE) organizes weekly walk-in tutoring sessions for a number of 200-level economics courses, including ECO250. These sessions are run by student volunteers and free of charge. No appointments are necessary. Information about NABE’s spring tutoring schedule will be forthcoming.

Academic Accommodations

The University of North Carolina at Greensboro respects and welcomes students of all backgrounds and abilities. If you feel you will encounter any barriers to full participation in this course due to the impact of a disability, please contact the Office of Accessibility Resources and Services (OARS). The OARS staff can meet with you to discuss the barriers you are experiencing and explain the eligibility process for establishing academic accommodations. You can learn more about OARS by visiting their website at ods.uncg.edu or by calling 336-334-544 or visiting them in Suite 215, EUC.

The Bryan School of Business and Economics’ Mission Statement

In the Bryan School of Business and Economics, we create and disseminate knowledge about the theory and practice of business. In addition to our courses and research, we accomplish this through hands-on projects, global experiences, and outreach to the community. Our work produces principled leaders and exceptional problem solvers who have a global perspective, an innovative mindset, a broad understanding of
sustainability, and a commitment to improve the organizations in which they work and the communities in which they live.

**Student Learning Goals:** Each program within the Bryan school has separate learning goals as listed with the degree program. The essential components of a professional education in business (excluding the B.S. and B.A. in Economics, the B.S. in Consumer, Apparel, and Retail Studies and the B.A. in Sustainable Tourism and Hospitality) include common courses for breadth and opportunities for advanced work for depth in the various business disciplines. These core business programs share the following common learning goals:

1. Students will implement the various steps of the critical thinking process, supported by the appropriate use of analytical and quantitative techniques, to formulate recommendations for subsequent decision making.
2. Students will apply appropriate ethical standards when making recommendations for business decision making.
3. Students will evaluate business decisions in the context of sustainability goals, balancing environmental, social, and economic needs, conditions, and potential decision impacts.
4. Students will formulate appropriate strategies, in the context of global issues and forces, to improve business performance in the world economy.
5. Students will explain the roles of innovation and innovation management in achieving successful business strategies, decisions, and performance.
6. Students will be able to plan, schedule, contribute to, and lead projects.

**Impact of this Course on the Program Student Learning Goals:** Upon successful completion of ECO 250, students will have developed competencies toward Learning Goals #1, #2, #4, and #5