

Statistics for Business I

ECON-3402

Fall 2021 Section N01 3 Credits 08/11/2021 to 12/10/2021 Modified 08/11/2021

Description

Course emphasis is on applications of statistics in business. Topics include methods of presenting data, numerical measures and correlation, probability theory and probability distributions, sampling distributions, estimation, and hypothesis testing.

Requisites

Prerequisites:

(MATH 1111 or MATH 1113) and CISM 2201 and Richards Col Upper Division RCUD

Corequisites:

Contact Information

Hilde Patron Boenheim

Email: hpatron@westga.edu

Office: Roy Richards Jr. Hall, Office 350

Phone: 678-839-5036

Office hours:

Monday, Wednesday & Friday: Online from 8:00 AM to 11:00 AM

Tuesday: Richards Hall, Room 350, 9:00 AM to 11:00 AM

Wednesday: Online from 8:00 AM to 11:00 AM

Thursday: Richards Hall, Room 350, 9:00 AM to 11:00 AM

Meeting Times

This is a fully online course. We will not meet in person. All lectures, homework assignments, and exams will be on coursesden.

Materials

There is no required textbook for this class. Any statistics textbook will have the material we will cover.

Outcomes

We will build on the following learning goals throughout the term:

First Goal

Construct and interpret tabular and graphical methods of presenting qualitative and quantitative data.

Second Goal

Construct and interpret summary numerical measures of location, variability, and association for the sample and the population.

Third Goal

Apply basic probability concepts, expected value, and variance to a variety of business applications

Fourth Goal

Use discrete and continuous probability distributions and sampling distributions in a variety of business applications

Fifth Goal

Construct and interpret interval estimates and hypothesis tests

Sixth Goal

Estimate regression models, evaluate the results of regression models, and use the results for prediction and forecasting

Seventh Goal

Use Microsoft Excel to generate descriptive statistics and perform regression and correlation analysis

✓ Evaluation

We will have three (3) midterms worth 10% each and ten (10) homework assignments.

The ten homework assignments are worth a combined 70%. The homework is not timed but has a deadline. Deadlines are firm. Please start working on the homework with plenty of time.

All homework and exams will be CourseDen

Criteria

Type	Weight	Topic	Notes
Exams (3)	10% / each		
Homework (10)	8.75% each (I will drop the two lowest)		

Breakdown

Each midterm is worth 10%, while the homework assignments, which are all equally valued, add up to 70%.

Letter grades will be assigned as follows:

- A: 90% or higher
- B: 80% to 89.9999%
- C: 70% to 79.9999%
- D: 60% to 69.9999%
- F: Less than 60%

Note: an 89.9% is a B!

☰ Assignments

All ten homework assignments are in course den. Each is worth 8.75% of your final grade. I will drop the two lowest homework scores at the end of the semester.

Schedule

Since this is an online course, you can work at your own pace but you must complete all assignments by the designated deadlines. These are as follows:

Thursday, August 12

- Syllabus Quiz is due before 11:30 PM today

Thursday, August 19

- Module 1: Describing Distributions with Graphs
- Homework is due before 11:30 PM today

Thursday, August 26

- Module 2: Describing Distributions with Numbers
- Homework is due before 11:30 PM today

Thursday, September 2

- Module 3: The Normal and Uniform Distributions
- Homework is due before 11:30 PM today

Thursday, September 9

- Midterm # 1
- Online on coursedem
- Thirty (30) minutes long. Covers modules 1,2, and 3. Multiple choice and fill in the blank questions.
- Becomes available at 5:00 AM on and must be completed before 11:00 PM

Thursday, September 16

- Module 4: Relationships between Variables, Correlations, Simple Regression Analysis
- Homework is due before 11:30 PM today

Thursday, September 23

- Module 5: Probability Distributions, Basic Probability Rules, Discrete Distributions, Continuous Distributions.
- Homework is due before 11:30 PM today

Thursday, September 30

- Module 6: The Binomial and Poisson Distributions
- Homework is due before 11:30 PM today

Thursday, October 7 (fall break)

Thursday, October 14

- Module 7, part 1: Confidence Intervals for the Population Mean when the Population Standard Deviation is Unknown.
- Homework is due before 11:30 PM today

Thursday, October 21

- Module 7, part 2: Hypothesis Tests for the Population Mean when the Population Standard Deviation is Unknown.
- Homework is due before 11:30 PM today

Thursday, October 28

- Midterm # 2
- Online on courseden
- Thirty (30) minutes long. Covers modules 4 through 7. Multiple choice and fill in the blank questions.
- Becomes available at 5:00 AM on and must be completed before 11:00 PM.

Thursday, November 4:

- Module 8, part 1: Hypothesis Tests and Confidence Intervals for Simple regression.
- Homework is due before 11:30 PM today

Thursday, November 11:

- Module 8, part 2: Hypothesis Tests and Confidence Intervals for Simple regression.
- Homework is due before 11:30 PM today

Thursday, November 18:

- Midterm # 3
- Online on courseden
- Thirty (30) minutes long. Covers module 8. Multiple choice and fill in the blank questions.
- Becomes available at 5:00 AM on and must be completed before 11:00 PM.

Thursday, November 25: (Thanksgiving)

Thursday, December 2

- Cumulative Final Exam.
- Only for students who miss an exam with a valid excuse
- You will have 60 minutes to complete the exam.
- Only one attempt.
- The exam will have multiple choice and fill in the blank questions.
- Becomes available at 5:00 AM on and must be completed before 11:00 PM.

College/School Policies

Wolf Pact

Having read the Honor Code for the University of West Georgia, I understand and accept my responsibility to uphold the values described therein and to conduct myself in a manner that will reflect the values of UWG and the Richards College of Business so as to respect the rights of all UWG community members. As a UWG student, I will represent myself truthfully and complete all academic assignments honestly and within the parameters set by my instructor.

I understand and accept that if I am found guilty of violations (through processes due me as a UWG student and outlined in the UWG Student Handbook), penalties will be imposed.

I also recognize that my responsibility includes a willingness to confront members of the UWG community if I feel there has been a violation of the Honor Code.

Ultimately, I will conduct myself in a manner that promotes UWG as the best place to work, learn, and succeed for my generation, and those to come!

About the Richards College of Business

Vision

To become a globally recognized college of business preparing forward-thinking, responsible leaders.

Mission

We are in the business of transforming lives through education, engagement, and experiences.

Strategic Goals and Values

Student Success

Admit quality students and provide them with an education that is rich in experiences and engagement opportunities to prepare them to be effective and ethical professionals.

Academic Success

Recruit, retain and develop faculty and staff by providing sufficient resources to support dynamic and up-to-date bachelor and master-level curricula, to conduct research and other professional activities, and to support engagement with all stakeholders.

Operational Success

Recruit, retain and develop administrative management and staff personnel to manage, develop and support infrastructure and those activities that build internal and external partnerships while working in an ever-changing environment.

Ethical Values

The Richards College of Business community (administrators, faculty, staff, students, and business partners) share a commitment to the principles of honesty and integrity in interactions and undertakings, accountability for personal behavior, and respect for the rights, differences, and dignity of others. In addition, we strive to continuously improve our abilities to recognize unethical behavior and to make ethical and moral decisions.

Institutional Policies

Academic Support

Accessibility Services: Students with a documented disability may work with UWG Accessibility Services to receive essential services specific to their disability. All entitlements to accommodations are based on documentation and USG Board of Regents standards. If a student needs course adaptations or accommodations because of a disability or chronic illness, or if he/she needs to make special arrangements in case the building must be evacuated, the student should notify his/her instructor in writing and provide a copy of his/her Student Accommodations Report (SAR), which is available only from Accessibility Services. Faculty cannot offer accommodations without timely receipt of the SAR; further, no retroactive accommodations will be given. For more information, please contact [Accessibility Services \(https://www.westga.edu/student-services/counseling/accessibility-services.php\)](https://www.westga.edu/student-services/counseling/accessibility-services.php).

Center for Academic Success: The [Center for Academic Success \(http://www.westga.edu/cas/\)](http://www.westga.edu/cas/) provides services, programs, and opportunities to help all undergraduate students succeed academically. For more information, contact them: 678-839-6280 or cas@westga.edu.

University Writing Center: The [University Writing Center \(https://www.westga.edu/writing/\)](https://www.westga.edu/writing/) assists students with all areas of the writing process. For more information, contact them: 678-839-6513 or writing@westga.edu.

Online Courses

UWG takes students' privacy concerns seriously: technology-enhanced and partially and fully online courses use sites and entities beyond UWG and students have the right to know the privacy policies of these entities. For more information on privacy and accessibility for the most commonly used sites, as well as technology requirements visit the [UWG Online \(https://uwgonline.westga.edu/\)](https://uwgonline.westga.edu/) site.

Students enrolled in online courses can find answers to many of their questions in the [Online/Off-Campus Student Guide \(http://uwgonline.westga.edu/online-student-guide.php\)](http://uwgonline.westga.edu/online-student-guide.php).

If a student is experiencing distress and needs help, please see the resources available at the [UWG Cares \(http://www.westga.edu/UWGCares/\)](http://www.westga.edu/UWGCares/) site. [Online counseling \(https://www.westga.edu/student-services/counseling/index.php\)](https://www.westga.edu/student-services/counseling/index.php) is also available for online students.

Honor Code

At the University of West Georgia, we believe that academic and personal integrity are based upon honesty, trust, fairness, respect, and responsibility. Students at West Georgia assume responsibility for upholding the honor code. West Georgia students pledge to refrain from engaging in acts that do not maintain academic and personal integrity. These include, but are not limited to, plagiarism, cheating, fabrication, aid of academic dishonesty, lying, bribery or threats, and stealing.

The University of West Georgia maintains and monitors a confidential Academic Dishonesty Tracking System. This database collects and reports patterns of repeated student violations across all the Colleges, the Ingram Library, and the School of Nursing. Each incidence of academic dishonesty is subject to review and consideration by the instructor, and is subject to a range of academic penalties including, but not limited to, failing the assignment and/or failing the course. Student conduct sanctions range from verbal warning to suspension or expulsion depending on the magnitude of the offense and/or number of offenses. The incident becomes part of the student's conduct record at UWG.

Additionally, the student is responsible for safeguarding his/her computer account. The student's account and network connection are for his/her individual use. A computer account is to be used only by the person to whom it has been issued. The student is responsible for all actions originating through his/her account or network connection. Students must not impersonate others or misrepresent or conceal their identities in electronic messages and actions. For more information on the University of West Georgia Honor Code, please visit the [Office of Community Standards](https://www.westga.edu/administration/vpsa/ocs/index.php) (<https://www.westga.edu/administration/vpsa/ocs/index.php>) site.

UWG Email Policy

University of West Georgia students are provided a MyUWG e-mail account. The University considers this account to be an official means of communication between the University and the student. The purpose of the official use of the student e-mail account is to provide an effective means of communicating important university related information to UWG students in a timely manner. It is the student's responsibility to check his or her email.

Credit Hour Policy

The University of West Georgia grants one semester hour of credit for work equivalent to a minimum of one hour (50 minutes) of in-class or other direct faculty instruction AND two hours of student work outside of class per week for approximately fifteen weeks. For each course, the course syllabus will document the amount of in-class (or other direct faculty instruction) and out-of-class work required to earn the credit hour(s) assigned to the course. Out-of-class work will include all forms of credit-bearing activity, including but not limited to assignments, readings, observations, and musical practice. Where available, the university grants academic credit for students who verify via competency-based testing, that they have accomplished the learning outcomes associated with a course that would normally meet the requirements outlined above (e.g. AP credit, CLEP, and departmental exams).

HB 280 (Campus Carry)

UWG follows University System of Georgia (USG) guidance: http://www.usg.edu/hb280/additional_information# (http://www.usg.edu/hb280/additional_information)

You may also visit our website for help with USG Guidance: <https://www.westga.edu/police/campus-carry.php> (<https://www.westga.edu/police/campus-carry.php>)

Mental Health Support

If you or another student find that you are experiencing a mental health issue, free confidential services are available on campus in the [Counseling Center](#). Students who have experienced sexual or domestic violence may receive confidential medical and advocacy services with the Patient Advocates in [Health Services](#). To report a concern anonymously, please go to [UWGcares](#).

ELL Resources

If you are a student having difficulty with English language skills, and / or U.S. culture is not your home culture, specialized resources are available to help you succeed. Please visit the [E.L.L. resource page](#) for more information.

COVID-19

The health and safety of our students, faculty, and staff remain the University of West Georgia's top priority.

For the most recent information on coronavirus disease (COVID-19) visit:

- [UWG's Guidance on Face Coverings \(https://www.westga.edu/coronavirus-info/return-to-campus/faq/what-is-the-guidance-on-the-use-of-face-coverings.php\)](https://www.westga.edu/coronavirus-info/return-to-campus/faq/what-is-the-guidance-on-the-use-of-face-coverings.php)
- [Centers for Disease Control and Prevention FAQ \(https://www.cdc.gov/coronavirus/2019-ncov/faq.html\)](https://www.cdc.gov/coronavirus/2019-ncov/faq.html)
- [Georgia Department of Public Health \(https://dph.georgia.gov/\)](https://dph.georgia.gov/)

Additional Items
