

Statistics for Business I

ECON-3402

Fall 2021 Section 03 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

Dr. Trung Ly

Email: trungly@westga.edu

Office: Roy Richards Sr. Hall 345

In addition to class meetings and office hours, email is the primary mode of communication between you and me throughout this course. You are required to check your university-assigned email account for all class instructions and updates. You are encouraged to ask questions via email but should expect that it may take up to 24 hours to receive a response. If you do not receive a response after 24 hours, please follow up with another email. Due to the large number of emails I get on a daily basis, please start the subject line with "ECON 3402-XX", where XX is the section number.

All email correspondence should be professional, and should make use of a salutation, a sign-off, proper grammar, and as little slang as possible. This policy is not to encourage formality for its own sake, but rather to build habits to prepare you for your professional life after graduation.

Note: the only email I check is the one listed above. I NEVER check the mailbox that is provided within CourseDen.

Office Hours

- Mondays, Wednesdays, Tuesdays, and Thursdays 1:30 PM to 2:45 PM
- By appointment (please send me an email to make an appointment)

You are welcome to stop by my office to ask questions about the course. We can also meet online during office hours. To do this, I ask that you sign up at this link (<https://calendly.com/trunglyuwg>). Once you make an appointment, you will receive a confirmation email with the date and time and a link to join the online meeting with me via Google Meet. If you use a computer, you just have to click on the link in the email. If you use a mobile device (phone or tablet), you may have to install Google Meet, which is a free app.

Meeting Times

- Tuesdays and Thursdays, 11:00 am - 12:15 pm, Roy Richards Sr. Hall 318

This course is an in-person course. While no grade is explicitly given for attendance, it will be nearly impossible to do well in this

course without regular attendance. That said, there is no penalty for not attending. If you decide to come to class, please arrive on time, and not leave early. I expect you to behave in a professional manner. Therefore, do not insult, belittle, or make fun of other students in class. Do not misbehave in class (think excessive talking and disrespect). If an incident occurs once, you will be dismissed from my class for the rest of the class. If it occurs twice, you will be dismissed for the rest of the term.

When you miss a class, it is your responsibility to get the assignments from me or a classmate. I will be more than happy to help you with course material outside of class as long as you attend class and put forth the proper effort.

Important note about COVID: if you are exposed to COVID or experience symptoms, please follow all the quarantine guidelines and requirements and don't come to class. If you ever have a COVID test somewhere other than UWG Health Services, please report it to the University by using this link (<https://www.westga.edu/myuwg/student-covid-19-reporting-form.php> (<https://www.westga.edu/myuwg/student-covid-19-reporting-form.php>)).

Important note about masks: I am fully vaccinated and will wear a mask in class. While there is not a mask mandate, the University System of Georgia (USG) encourages everyone to get vaccinated and wear a mask on campus. The most recent COVID-19 update provided by USG is as follows:

"The University System of Georgia recognizes COVID-19 vaccines offer safe, effective protection and urges all students, faculty, staff, and visitors to get vaccinated either on campus or with a local provider. Additionally, everyone is encouraged to wear a mask or face covering while inside campus facilities. The system continues to work closely with the Georgia Department of Public Health to prioritize the health and safety of our campus communities."

Please note that UWG does not require either vaccines or masks, and if you aren't vaccinated or don't wear a mask, there are no penalties.

Materials

Statistical Techniques in Business and Economics

Author: Douglas Lind and William Marchal and Samuel Wathen

Publisher: McGraw-Hill

Edition: 18

There is not a required textbook for this course. That said, a good reference book is Statistical Techniques in Business and Economics by Wathen, Lind, and Marchal, 18th Edition (any recent edition will be fine)

Note: In this course we will not be using the online homework provided by the publisher. As a result, it is not necessary for you to purchase the access code.

Outcomes

L01-Construct and interpret tabular and graphical methods of presenting qualitative and quantitative data (LG2, LG3, LG10)

L02-Construct and interpret summary and numerical measures of location, variability, and association for the sample and the population (LG2, LG3, LG10)

L03-Apply basic probability concepts, expected value and variance to a variety of different business applications (LG2, LG6, LG10)

L04-Use discrete and continuous probability distributions and sampling distributions in a variety of business applications (LG2, LG3, LG6, LG10)

L05-Construct and interpret interval estimates and hypothesis tests (LG2)

Evaluation

Criteria

Final grades for the course are based on the following:

Type	Weight	Topic	Notes
Problem sets	15%		
Quizzes	20%		
Midterm 1	20%		
Midterm 2	20%		
Final exam	25%		

Breakdown

I reserve the right to change this grade distribution if necessary

Grade	Range	Notes
A	90%+	
B	80%-89.99%	
C	70%-79.99%	
D	60%-69.99%	
F	Below 60%	

Assignments

Problem sets

A total of approximately 4-5 problem sets plus some additional assignments will be assigned throughout the semester. You are encouraged to work in groups on the problem sets, but please turn in your own solutions. The problem sets will give you opportunities to apply the concepts discussed in class, so the more you put into them, the more you get out of them (beware the risk of free riding!). **They will be graded on completeness and not on accuracy.** Even if you don't know how to do the problems on the problem sets, you need to show me a good faith effort to attempt them and not just write down nonsense for the sake of completeness. Problem sets are due at the beginning of class on the date noted on the assignment.

Note: In this course we will not be using the online homework provided by the publisher. As a result, it is not necessary for you to purchase the access code.

Quizzes

Several quizzes are given throughout the semester. These quizzes are designed to reinforce what you learn in class and help you prepare for midterm exams. The date for each quiz will be announced in class and via email.

Exams

There will be two in-class midterm exams and a final exam. The midterms are tentatively scheduled for Thursday, September 23 and Thursday, October 28. Please check the final exam schedule for the time and location of the final exam.

Schedule

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

Electronic devices

Unless otherwise announced, please do not use electronic devices in class. The use of a laptop is allowed for note-taking only. Personally, I advise against using electronic devices for this purpose, and here is a link to an article explaining why (<https://www.vox.com/2014/6/4/5776804/note-taking-by-hand-versus-laptop>). Do not text, listen to music, or surf the internet.