Quantitative Methods in Business**, GBAR 3352**

Fall 2023; Thursdays 6:00-9:00 p.m.

Del Rio - Room 109, Eagle Pass – Room B111, Uvalde – Room B113, Alpine – tbd

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Office Hours: Virtual Office Hours TBD
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Course Description
     This course is a study of statistical data analysis and statistical inference, including estimation of population parameters, hypothesis testing, linear regression, and correlation. The course includes the use of calculator and/or computer technology in handling statistical data. Prerequisite: Math 1314 or 1324 (SWTJC Courses)

COURSE OBJECTIVES
By the end of the course, the successful student will be able to:
     Evaluate validity of statistical studies/representations;
     Correctly represent data using frequency distributions & other graphical techniques;
     Describe and interpret data in terms of measures of central tendency and variation;
     Solve applied problems using properties of normal distribution; and,
     Solve applied problems using hypothesis testing.

COURSE TEXT AND MATERIAL
In this course we will use Lind, Douglas A. 2021. *Statistical Techniques in Business & Economics*, 18th Edition. McGraw-Hill Education. To purchase your text, you have the option of purchasing an online only access code, or an access code with your printed textbook. Connect uses technology that adapts content to your skill level to make more-efficient use of your study time and create a more-effective reading experience.

You will also be expected to use a graphing calculator or a free on-line version of a graphing calculator (cell phone or tablets are not acceptable calculators).

COURSE CONTENT/MATERIAL (tentative and as time permits)
     Chapter 1 –   What is Statistics? (all)
     Chapter 2 –   Describing Data: Frequency Distributions, and Graphic Presentation (all)
     Chapter 3 –   Describing Data: Numerical Measures (all)
     Chapter 4 –   Describing Data: Displaying and Exploring Data (all)
     Chapter 5 –   A Survey of Probability Concepts (all)
     Chapter 6 –   Discrete Probability Distributions (all)
     Chapter 7 –   Continuous Probability Distributions (all)
     Chapter 8 –   Sampling Methods and the Central Limit Theorem (all)
     Chapter 9 –   Estimation and Confidence Intervals (all)
     Chapter 10 –   One-Sample Tests of Hypothesis (all)
     Chapter 11 –   Two-Sample Tests of Hypothesis (all)
     Chapter 13 –   Correlation and Linear Regression (part)

ATTENDANCE POLICY & EXPECTED CONDUCT

Class will be on-site and start at the designated time and will fill the scheduled period with 1 break. All students are expected to arrive on time, attend all classes, stay for the duration of class time and be prepared to learn the material being covered. You are expected to bring all materials needed, to take notes and pay attention and to participate in class discussion. Students desiring to drop this course should do so through the office of the registrar by the official drop date. Any student who disrupts the educational process of this class or who is found engaging in academic dishonesty will receive a failing final grade and will be barred from further attendance. You are expected to turn-off and not access any electronic, non-task-oriented device such as cell phones, tablets, and MP3 players. Cell Phones are disruptive, and MUST be always in the off or silent position while in the classroom.

   If you miss class for any reason, you must contact me. Absences should be the result of an emergency or some other reasonable activity that occurs during class time. Do not schedule appointments during class time.

GRADING

These are the requirements for a successful completion/passing grade in this course:

     Exams (3): 40%
     Final Exam: 25%
     Quizzes: 20%
     Assignments: 15%

  <u>Exams & Final Exam</u> – note cards and formula sheets will be allowed. These will be multiple choice, on-line exams, taken in the Computer Labs through Blackboard and will be proctored.
  <u>Quizzes</u> – will be multiple choice, taken on-line through Blackboard. They will cover the material from the previous 1-2 classes. Notes and formula sheets will be allowed to be used on quizzes.
  <u>Assignments</u> – will be assigned each class throughout the semester. Assignments will also be completed through Blackboard.

Final letter grades will be assigned according to the following ranges: 90-100=A, 80-89=B, 70-79=C,60-69=D, 59 or below=F.

   MAKE-UP POLICY: No make-up tests will be administered and students who are absent from an examination session without a legitimate excuse will receive a grade of zero for the missed test. A legitimate excuse includes a verifiable documented medical emergency involving a student or a member of the student's immediate family. A student who has a legitimate excuse for missing a test will be allowed to replace the grade on the missed test with their grade on the comprehensive final exam. A make-up final exam will be given only in the most extreme situations and must be completed by the last official date of the current semester. A grade of I will be issued only as a last resort in accordance with university policy.

Academic Integrity

Students in this class are expected to demonstrate scholarly behavior and academic honesty in the use of intellectual property. A scholar is expected to be punctual, prepared, and focused; meaningful and pertinent participation is appreciated. Examples of academic dishonesty include but are not limited to: Turning in work as original that was used in whole or part for another course and/or professor; turning in another person's work as one's own; copying from professional works or internet sites without citation; collaborating on a course assignment, examination, or quiz when collaboration is forbidden.

Classroom Climate of Respect

Importantly, this class will foster free expression, critical investigation, and the open discussion of ideas. This means that all of us must help create and sustain an atmosphere of tolerance, civility, and respect for the viewpoints of others. Similarly, we must all learn how to probe, oppose and disagree without resorting to tactics of intimidation, harassment, or personal attack. No one is entitled to harass, belittle, or discriminate against another on the basis of race, religion, ethnicity, age, gender, national origin, or sexual preference. Still we will not be silenced by the difficulty of fruitfully discussing politically sensitive issues.

Diversity Statement

I aim to create a learning environment for my students that supports a diversity of thoughts, perspectives and experiences, and honors your identities (including race, gender, class, sexuality, religion, ability, socioeconomic class, age, nationality, etc.). I also understand that the crisis of COVID, economic disparity, and health concerns, or even unexpected life events could impact the conditions necessary for you to succeed. My commitment is to be there for you and help you meet the learning objectives of this course. I do this to demonstrate my commitment to you and to the mission of Sul Ross State University to create an inclusive environment and care for the whole student as part of the Sul Ross Familia. If you feel like your performance in the class is being impacted by your experiences outside of class, please don't hesitate to come and talk with me. I want to be a resource for you.

For Core Curriculum Courses Only for 2022-2023

Personal Responsibility

Students will develop principles of personal responsibility for living in a diverse world; to include intercultural competency, knowledge of civic responsibility, and the ability to engage effectively in regional, national and global communities.

Social Responsibility

Students will develop principles of social responsibility for living in a diverse world, to include the ability to connect choices, actions, and consequences to ethical decision-making.

SUL ROSS STATE UNIVERSITY DEPARTMENT OF BUSINSESS ADMINITRATION

ADDITIONAL INFORMATION STUDENT LEARNING OUTCOMES:

1. Analyze and solve business problems across major business functions, using fundamental business principles and strategies.
2. Communicate business information through written, oral and other delivery processes.
3. Identify and discuss the impact of ethical and social responsibility issues in business.

MARKETABLE SKILLS FOR THE ALIGNED BBA DEGREES

1. Students will apply the principles of business to the management of existing businesses or the creation of new businesses.
2. Students will use appropriate information from research and analysis to make informed decisions.
3. Students will be able to write business correspondence including letters, emails, reports, and resumes.
4. Students will be able to make effective oral presentations to both professional and general audiences.

DISABILITIES ACCOMMODATION

Sul Ross State University (SRSU) is committed to equal access in compliance with Americans with Disabilities Act of 1973. It is SRSU policy to provide reasonable accommodations to students with documented disabilities. It is the student's responsibility to initiate a request each semester for each class. RGC students seeking accessibility services should contact Paulette Harris, Executive Assistant to the Vice President and Dean, at 830-279-3023 or email pharris@sulross.edu. Ms. Harris's office is at 2623 Garner Field Road, Uvalde, TX 78801 (this is the mailing address, too).

DISTANCE EDUCATION STATEMENT

Students enrolled in distance education courses have equal access to the university's academic support services, such as library resources, online databases, and instructional technology support. For more information about accessing these resources, visit the SRSU website. Students should correspond using Sul Ross email accounts and submit online assignments through Blackboard, which requires secure login. Students enrolled in distance education courses at Sul Ross are expected to adhere to all policies pertaining to academic honesty and appropriate student conduct, as described in the student handbook. Students in web-based courses must maintain appropriate equipment and software, according to the needs and requirements of the course, as outlined on the SRSU website. Directions for filing a student complaint are located in the student handbook.

Tentative Schedule – Subject to Change

MONTH	DAY	TOPIC
AUGUST	31	Introduction, Syllabus, Chapter 1, What is Statistics? & Chapter 2, Describing Data: Frequency Tables, Frequency Distributions, and Graphic Presentation.
SEPTEMBER	7	Chapter 3, Describing Data: Numerical Measures.
	14	Chapter 4, Describing Data: Displaying and Exploring Data.
	21	Chapter 5, A Survey of Probability Concepts.
	28	Exam 1 (Chapters 1-4) & Chapter 6, Discrete Probability Distributions.
OCTOBER	5	Chapter 7, Continuous Probability Distributions.
	12	Chapter 8, Sampling Methods and the Central Limit Theorem.
	19	Exam 2 (Chapters 5-7)
	26	Chapter 9, Estimation and Confidence Intervals.
NOVEMBER	2	Chapter 10, One-Sample Tests of Hypothesis.
	9	Chapter 11, Two-Sample Tests of Hypothesis.
	16	Chapter 13, Correlation and Linear Regression.
	23	NO CLASS – Thanksgiving Holiday
	30	Exam 3 (Chapters 8-11).
DECEMBER	6	Review for the Final Exam (optional class)
	13	Final Exam

McGraw-Hill Connect

A BRIEF DESCRIPTION OF CONNECT

What is Connect?

Connect is an online homework and learning management platform from McGraw-Hill Education. All of your course assignments will be delivered through Connect.

Connect helps you:

- Stay organized with assignments – both in and out of class
- Target difficult material to practice and improve your skills
- Review for exams with self-assessment tests and quizzes
- Track your performance with personalized reports
- Save time on studying
- Save money on textbooks

HOW CONNECT FITS INTO YOUR OVERALL COURSE GRADE

Connect is required to complete your assignments and will be worth 100% of your grade.

Assignments:	15 %
Quizzes:	20 %
Exams:	40 %
Final Exam:	25 %

STUDENT PURCHASE & REGISTRATION INFORMATION

For this course, you will purchase access to McGraw-Hill Education's Connect. Here's how:

OPTION 1

Purchase from Connect integrated in Blackboard:

Purchase Connect access through your Blackboard account. Login to your school's Blackboard account, and enter your course, then click on the Connect link, which will take you to the Connect registration page where you can follow the prompts.

At that time, you will need to do one of the following:

- Enter your access code
- Purchase access online
- Begin your 14-day Temporary Access period

Please note: After you register, you will have the option to purchase a low-cost, binder-ready, loose-leaf, print-version of the text through Connect. This is optional. If you choose to purchase a copy, a full-color, loose-leaf version will be shipped to you.

OPTION 2

Purchase from the bookstore:

Purchase a Connect code at the bookstore and register either with the provided link or with the link provided by your instructor. During the registration process, you will be prompted to create a new account or login with an existing Connect username and password.

At that time, you will need to do one of the following:

- Enter your access code
- Purchase access online
- Begin your 14-day Temporary Access period

Please note: After you register, you will have the option to purchase a low-cost, binder-ready, loose-leaf, print-version of the text through Connect. This is optional. If you choose to purchase a copy, a full-color, loose-leaf version will be shipped to you.

TECHNICAL AND SUPPORT INFORMATION

If you are having trouble registering for or accessing Connect, please contact McGraw-Hill Education's Customer Support. Live chat, email, and phone support are available 7 days a week.

When contacting a support agent, you will always receive a case number. It will be important to save this case number if additional follow up or documentation is needed.

Website: www.mhhe.com/support | Phone: (800) 331-5094 **Hours (EST)**
Sunday: 12 PM - 12 AM
Monday - Thursday: 24 hours
Friday: 12 AM - 9 PM Saturday: 10 AM - 8 PM

Ensure your computer meets system requirements by going to this link:
http://connect.mheducation.com/connect/troubleshoot.do