BUSINESS STATISTICS, QMTS 4311 (D01)

Fall 2014; M 6:00-9:00 p.m., Room 303

Barbara Nunley
830-734-1982 (cell)
bjnunley@yahoo.com or bnunley@sulross.edu

Course Description (From Catalog)

A study of data, tabular and graphic presentation of data, averages, dispersion, probability and statistical inference as related to business. 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;

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

Lind, Douglas A. 2015. *Statistical Techniques in Business & Economics*, 16th Edition. McGraw-Hill Education

Companion website: www.mhhe.com/lind16e. This website provides Quizzes, PowerPoints, Data sets/files and other online resources.

ADDITIONAL SUPPLIES REQUIRED

Ruled paper or graph paper.

Graphing calculator or other scientific calculator (cell phone or tablets are not acceptable calculators).

Straight edge or ruler.

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 (part)

Chapter 4 – Describing Data: Displaying and Exploring Data (all)

Chapter 5 – A Survey of Probability Concepts (all)

Chapter 6 – Discrete Probability Distributions (part)

Chapter 7 – Continuous Probability Distributions (part)

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 12 – Analysis of Variance (part)

Chapter 13 – Correlation and Linear Regression (part)

ATTENDANCE POLICY & EXPECTED CONDUCT

Class will start at the designated time and will fill the scheduled period with 1 break. You 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. You are expected to turn-off and not access any electronic, non-task oriented device such as cell phones, tablets and MP3 players. Devices for recording lectures will be permitted after discussion with the instructor.

If you miss class for any reason, you must contact me, preferably before the absence, to obtain assignments and be caught up for the next class meeting. 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):   50%
Final Exam: 30%
Homework/Classwork/Quizzes: 20%

Tests – depending on the material, note cards or formula sheets may be allowed or will be provided.

Quizzes – will be given on all non-exam class days. They will cover the material from the previous 1-2 classes. Notes will be allowed to be used on quizzes.

Homework – will be assigned each class day throughout the semester. Homework assignments must be complete and will be turned in by the end of the following class. Not all problems will be graded for correctness, but the assignment grade is contingent on completeness. If you use outside references, make sure to properly source the material.

Extra credit will be awarded for a notebook kept during the semester and due at the time of the final exam.

DISABILITIES ACCOMMODATION

Sul Ross State University Rio Grande College is committed to equal access compliance with the American with Disabilities Act of 1973. It is the student's responsibility to initiate a request for accessibility services. Students seeking accessibility services must contact Kathy Biddick at 830-279-3003 or 2623 Garner Field Road, Uvalde, Texas 78801.

DISTANCE EDUCATION STATEMENT

Students enrolled in distance education courses have equal access to the university's academic support services, library resources, and instructional technology support. For more information about accessing these services, visit the SRSU website. Students should submit assignments through Blackboard or SRSU email, which requires secure login information to verify students' identities and to protect students' information. Students enrolled in distance education courses at SRSU 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 need and requirements of the course as outlined on the SRSU website.

Tentative Schedule – Subject to Change

MONTH	DAY	TOPIC
AUGUST	25	Introduction, Syllabus, **Chapter 1,** What is Statistics? **& Chapter 2,** Describing Data: Frequency Tables, Frequency Distributions, and Graphic Presentation.
SEPTEMBER	1	Labor Day Holiday – No Class
	8	**Chapter 3,** Describing Data: Numerical Measures.
	15	**Chapter 4,** Describing Data: Displaying and Exploring Data.
	22	**Chapter 5,** A Survey of Probability Concepts.
	29	**EXAM 1 (Chapters 1-4) & Chapter 6,** Discrete Probability Distributions.
OCTOBER	6	**Chapter 7,** Continuous Probability Distributions.
	13	**Chapter 8,** Sampling Methods and the Central Limit Theorem.
	20	**EXAM 2 (Chapters 5-7) & Chapter 9,** Estimation and Confidence Intervals.
	27	**Chapter 10,** One-Sample Tests of Hypothesis.

MONTH	DAY	TOPIC
NOVEMBER	3	**Chapter 11,** Two-Sample Tests of Hypothesis.
	10	**Chapter 12,** Analysis of Variance.
	17	**Chapter 13,** Correlation and Linear Regression.
	24	**EXAM 3 (Chapters 8-11) &** Review for Final Exam
DECEMBER	1	Review for Final Exam
	8	**Final Exam**

Purchasing Options - SmartBook

As an alternative to the print text in the bookstore, you have the option of purchasing SmartBook for this course. SmartBook is the first and only adaptive reading experience.
How does SmartBook work?
☐ SmartBook creates a personalized reading experience for you by highlighting the most impactful concepts in the chapter at any moment in time.
☐ As you interact with SmartBook by reading and answering periodic assessment questions, your experience adapts, and different passages of the text are highlighted based on what you're ready to learn next.
☐ By prioritizing concepts based on your strengths and weaknesses, SmartBook provides an efficient and interactive reading experience, instead of a passive one. Your time is valuable, and SmartBook helps you make every minute count.
Visit http://info.mheducation.com/smartbook.st.html to learn more about SmartBook and to receive a 15% discount for a limited time.