

## **BUSINESS STATISTICS, QMTS 4311 (T01)**

**Fall 2016; Thursdays 6:00-9:00 p.m., Room 109**

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### **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 & 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**

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

McGraw-Hill Connect Access Code (may be purchased with the text or separately)

Companion website: [www.mhhe.com/lind16e](http://www.mhhe.com/lind16e). This website provides sample Quizzes, PowerPoints, Data sets/files and other online resources.

Graphing calculator or other scientific 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 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):	40%
Final Exam:	25%
Quizzes:	20%
Homework:	15%

Tests – depending on the material, note cards or formula sheets may be allowed or will be provided. These will be paper/pencil tests taken during class-time.

Quizzes – will be taken on-line through Blackboard. 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 throughout the semester. Homework assignments will also be completed through Blackboard.

## **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 Distribution, and Graphic Presentation.
SEPTEMBER	1	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.
NOVEMBER	3	Chapter 11, Two-Sample Tests of Hypothesis.
	10	Chapter 13, Correlation and Linear Regression.
	17	EXAM 3 (Chapters 8 - 11), Review for the Final Exam.
	24	NO CLASS - Thanksgiving Holiday
DECEMBER	1	NO CLASS
	8	FINAL EXAM.

## McGraw-Hill Connect

### Overview and Setting Expectations

McGraw-Hill's Connect is a web-based assignment and assessment solution required for this course. Connect is designed to assist you with your coursework based on your needs. As outlined in this syllabus, assignments will make up a {significant} portion of your overall course grade.

### Access

Connect access codes are packaged with a new textbook in the bookstore, at no additional cost. Connect can also be purchased online at our section's Connect web address:

<http://connect.mheducation.com/class/b-nunley-qmts-4311-fall-2016-section-t01>

If you purchase Connect online, you will have the option of purchasing Connect or ConnectPlus, which includes an interactive eBook to supplement the required textbook for this course. NOTE: You can register in Connect and have access without a code for a limited time period (typically three weeks).

### Registration

To register in Connect, please visit <http://connect.mheducation.com/class/b-nunley-qmts-4311-fall-2016-section-t01> and click "*Register Now.*"

### Support & Tips

If you have any issues while registering or using Connect, please contact McGraw-Hill's CARE team through <http://www.mhhe.com/support>. To avoid problems related to unexpected technical issues, you are advised not to wait until the last moment to complete assignments. Please review your "*Student Quick Tips*" for further support.

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