

Course Syllabus
MATH 1342-003: Elementary Statistical Methods
Spring 2020

Instructor: Dr. Angela M. Brown

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Office Hours: M 9:30-11:30, W 10-11, 2-3, TR 3:30-5:00, others by appointment

Time and Place of Class Meetings: TR 2:00-3:15 pm ACR 205

Prerequisites: Completion of MATH 0301 (A,B, or C) or one of the following or passing TSI

Required Textbooks: Discovering Statistics, 3rd edition. Hawkes. ISBN 9781642770155

Other Equipment Needed: calculator (cell phone is not an acceptable calculator)
ruled paper or graph paper (for graphical presentation of data)
some type of straight-edge or ruler (for graphical presentation of data)

Mathematics Program Learning Objectives: The graduating student should be able to

- Apply knowledge of basic mathematics principles.
- Identify and provide valid proofs or solutions for theorems or problems.
- Recognize and dispute invalid mathematical statements by using counter-examples.

Course Objectives By the end of the course, the successful students 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 a normal distribution

Solve applied problems using hypothesis testing

Use computer software in solution/presentation of statistical data

Grading Scale: 90-100 A, 80-89 B, 70-79 C, 60-69 D, 59-Below F

Grading Policy: The grade weighting will be as follows:

Homework/Classwork/Quizzes: 25%

Exams : 30%

Project: 25%

Final Exam: 20%

Quizzes: Quizzes will be given periodically. You will have advanced warning of most quizzes. Additional in class assignments will be given and counted the same as quiz and homework grades.

Homework: Homework will be assigned daily. Homework will be graded on completion and accuracy. Copying answers out of the back of the book is plagiarism and will be prosecuted. All homework along with due dates will be posted on Blackboard for the course.

Exams: There will be three exams in addition to the final exam. All exams will be closed notes, closed book. No make-up exams will be given unless due to a school function. If you miss an exam with a valid excuse, the grade you make on the final exam can replace this grade.

Final Exam is Monday, December 4 12:30-2:30 pm

Project: We will have a project that will run the semester long. You will have due dates assigned on Blackboard for certain part of project as the course progresses. More information on the project will be given by the second week of class.

General Policies: You are expected to bring all necessary materials and take notes and participate. You are expected to turn-off and not to access any electronic, non-task oriented device such as cell/smart phones/pads and i-pods unless your textbook is on such a device. Again, a cell phone cannot be used as a calculator. Devices for recording the lecture are permitted; either audio or video. Any personal business must be conducted during office hours or by appointment. I will only discuss grades and attendance issues in my office. Classroom time is for the entire class.

Attendance Policy: Students are expected to attend every class. If class must be missed, the student is expected to get the notes from a classmate, and to check with me or on Blackboard for announcements and updated assignments. You are expected to check your Sul Ross e-mail account. Absences due to school functions should be discussed with me ahead of time.

Students are expected to arrive to class on time. If a student is perpetually late, they will be asked to not attend class unless they arrive on time. If tardiness becomes a problem for the class as a whole, people who arrive late will not be permitted to enter the class. If this stricter policy becomes necessary, there will be an announcement made in class.

It is policy of the university to drop a student with a grade of "F" if 9 hours or more of class are missed. For this course that would be 6 or more class sessions missed.

Americans With Disabilities Act: 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. Please contact me, Ms. Rebecca Greathouse Wren, M.Ed., LPC-S, Director/Counselor, Accessibility Services Coordinator, Ferguson Hall (Suite 112) at 432.837.8203; mailing address is P.O. Box C-122, Sul Ross State University, Alpine, Texas 79832. Students should then contact the instructor as soon as possible to initiate the recommended accommodations.

Important Dates:

January 13	First Day of Classes
January 16	Last Day for Late Registration and Schedule Changes
January 20	Martin Luther King, Jr. holiday
January 29	12th Class Day
March 9-13	Spring Break
April 3	Last Day to Withdrawal from University or Drop Classes with a Grade of "W" (by 4 pm)
April 29	Last Day of Classes
April 30	Dead Day
May 1, 4-6	Final Exams
May 8	Commencement

Tentative Schedule (subject to change)

Tuesday		Thursday	
Jan 14	Syllabus and Intro (Ch 1)	Jan 16	Data (Ch 1 and 2)
Jan 21	Data and Terminology (Ch 2)	Jan 23	Frequency Distributions (Ch 3)
Jan 28	Graphs (Ch 3)	Jan 30	Analysis of Graphs (Ch 3)
Feb 4	Measure of Location (Ch 4)	Feb 6	Measures of Dispersion (Ch 4)
Feb 11	Box Plots and Subsetting (Ch 4)	Feb 13	Grouped Data (Ch 4)
Feb 18	Exam 1	Feb 20	Intro to Probability (Ch 6)
Feb 25	Discrete Distributions (Ch 7)	Feb 27	Discrete Distributions (Ch 7)
Mar 3	Continuous Distributions (Ch 8)	Mar 5	Continuous Distributions (Ch 8)
Mar 17	Random Samples (Ch 9)	Mar 19	Exam 2
Mar 24	Estimating Samples (Ch 10)	Mar 26	Estimating Samples (Ch 10)
Mar 31	Estimating Samples (Ch 10)	Apr 2	Hypothesis Testing (Ch 11)
Apr 7	Hypothesis Testing (Ch 11)	Apr 9	Hypothesis Testing (Ch 11)
Apr 14	Hypothesis Testing (Ch 11)	Apr 16	Inferences with Two Samples (Ch 12)
Apr 21	Inferences with Two Samples (Ch 12)	Apr 23	Regression (Ch 5, 13, 14)
Apr 28	Exam 3		