

Sul Ross State University
Course Syllabus
MATH 1342-101, 1W1, 1C1: Elementary Statistical Methods
Summer I 2021

Instructor: Dr. Angela M. Brown

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Office Hours: Time and Place of Class Meetings: MTWR 10-11 am ACR 107B or WSB 216 in person; online using <https://gather.town/i/hcdWoJEO> Password: MATH1342; other times can be scheduled by appointment.

Prerequisites: Completion of MATH 0342 (A,B, or C) or passing TSI or Concurrent Enrollment

Required Textbooks: Discovering Statistics, 3rd edition. Hawkes. ISBN 9781642770155. You will need access to the online textbook and homework. You should be able to buy an access code through our bookstore or the link for the instructions is under the Start Here link on Blackboard.

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). Access to statistical software such as Excel to complete the projects.
pencil

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

- The student will be able to demonstrate content knowledge of basic mathematical principles.
- The student will be proficient in logic, able to negate statements, provide counterexamples to false statements, and determine the validity of arguments.
- The student will be able to communicate mathematical content clearly and with valid reasoning.

EC-6 Teaching Competencies

- Competency 013 (Mathematics Instruction) The teacher understands how students learn mathematical skills and uses that knowledge to plan, organize, and implement instruction and assess learning.
- Competency 014 (Number Concepts and Operation) The teacher understands concepts related to numbers, operations and algorithms and the properties of numbers.
- Competency 015 (Patterns and Algebra) The teacher understands concepts related to patterns, relations, functions and algebraic reasoning.
- Competency 016 (Geometry and Measurement) The teacher understands concepts and principles of geometry and measurement.
- Competency 017 (Probability and Statistics) The teacher understands concepts related to probability and statistics and their applications.

- Competency 018 (Mathematical Processes) The teacher understands mathematical processes and knows how to reason mathematically, solve mathematical problems and make mathematical connections within and outside of mathematics.

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 20%

Quizzes: 30%

Projects: 40%

Final Exam 10%

Homework: Homework will be assigned daily through the online homework system. Homework is graded on mastery. All homework along with due dates will be posted on the Hawkes Learning System. You can attempt a homework until you complete it, but you will be forced to go back to the practice mode if you miss too many problems. There will be a graduated point exemption for late assignments, but if unforeseen circumstances come up, please talk to me.

Quizzes: You will have at least one quiz per chapter. Longer chapters may be broken up more. Quizzes will also be posted in Hawkes, but you will only have one opportunity to complete a quiz. You are allowed to use your textbook and/or notes, but these will have a time limit, so please prepare accordingly before attempting a quiz.

Projects: In lieu of exams you will have chapter projects. These will be assigned for each chapter we complete and can be found at stat.hawkeslearning.com. These will also be posted on Blackboard. These will need to be typed and submitted through Blackboard for grading. For the projects, it is expected you will use statistical software to work on these. Your answers are expected to be detailed and you also will need to turn in your work from the software.

Exams: The only exam will be the final exam. The final exam will be an oral exam and each person will need to meet online with me individually to do so. These can be scheduled for finals week around your other exams. I expect each person to take 30 minutes. If you have an A going into the final, you will not be required to take the exam.

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, but unless there is a glitch, all lectures will be recorded and accessible through Blackboard. Any personal business must be conducted during office hours or by appointment. I will only discuss grades and attendance issues in my office or a by a zoom meeting during office hours. 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.

If you are attending through online, finishing your assignments by the designated due dates will constitute continued attendance in the class.

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 4 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 each semester for each class. Students seeking accessibility/accommodations services must contact Rebecca Greathouse Wren, LPC-S, SRSU’s Accessibility Services Coordinator at 432-837-8203 (please leave a message and we’ll get back to you as soon as we can during working hours), or email rebecca.wren@sulross.edu. Our office is located on the first floor of Ferguson Hall (Suite 112), and our mailing address is P.O. Box C-122, Sul Ross State University, Alpine, Texas, 79832.

Library Services: The Sul Ross Library offers FREE resources and services to the entire SRSU community. Access and borrow books, articles, and more by visiting the library’s website, library.sulross.edu. Off-campus access requires your LoboID and password. Check out materials using your photo ID. Librarians are a tremendous resource for your coursework and can be reached in person, by email (srsulibrary@sulross.edu), or phone (432-837-8123).

Distance Education Statement: Students enrolled in distance education courses have equal access to the university’s academic support services, such as Smarthinking, 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 information to verify students’ identities and to protect students’ information. The procedures for filing a student complaint are included in the student handbook. 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.

Academic Integrity: Academic dishonesty hurts everyone and reduces the value of college degrees. Doing someone else’s work, presenting the ideas and work of others as your own, submitting the same paper for multiple classes, and/or failing to cite your sources when you utilize the ideas of others, are all examples of academic dishonesty. It is your responsibility to read and understand the university’s policy on academic dishonesty in the SRSU Student Handbook, as all violations will be taken seriously and handled through the appropriate university process. The Student Handbook can be found at: <https://www.sulross.edu/catalog/undergraduate-academic-regulations-2/#1605412215143-c8b265dc-3e01>.

Important Dates:

- June 2 First Day of Classes
- June 4 Last Day for Late Registration and Schedule Changes
- June 7 Census Day
- June 25 Last Day to Withdrawal from University or Drop Classes with a Grade of “W” (by 4 pm)
- July 5 Independence Day Holiday
- July 6 Final Exams

Tentative Schedule (subject to change)

Mon		Tues		Wed		Thur		Fri	
				Jun 2	Syllabus and Intro (Ch 1)	Jun 3	Data (Ch 1 and 2)	Jun 4	Frequency Dist. and Graphs (Ch 3)
Jun 7	Measure of Location and Dispersion (Ch 4)	Jun 8	Box Plots and Subsetting (Ch 4)	Jun 9	Grouped Data (Ch 4)	Jun 10	Intro to Probability (Ch 6)	Jun 11	Intro to Probability (Ch 6)
Jun 14	Discrete Distributions (Ch 7)	Jun 15	Continuous Distributions (Ch 8)	Jun 16	Continuous Distributions (Ch 8)	Jun 17	Random Samples (Ch 9)	Jun 18	Random Samples (Ch 9)
Jun 21	Estimating Samples (Ch 10)	Jun 22	Estimating Samples (Ch 10)	Jun 23	Estimating Samples (Ch 10)	Jun 24	Hypothesis Testing (Ch11)	Jun 25	Hypothesis Testing (Ch 11)
Jun 28	Hypothesis Testing (Ch 11)	Jun 29	Inferences with Two Samples (Ch 12)	Jun 30	Inferences with Two Samples (Ch 12)	Jul 1	Regression (Ch 5, 13, 14)	Jul 2	Regression (Ch 5, 13, 14)