

SUL ROSS STATE UNIVERSITY

Math 1342 Introduction to Statistical Methods

Course Syllabus

SECTION : Math 1342 C01/C02, T Th 9:30 -10:45 or 11 am – 12:15 pm

CLASSROOM: ACR 205

INSTRUCTOR: Marina. Kimball

INSTRUCTOR'S Office: FH 202

INSTRUCTOR'S PHONE #: 432-538-28879- text only

INSTRUCTOR'S E-MAIL: marina.kimball@sulross.edu

INSTRUCTOR'S OFFICE HOURS: MW 1-3, TTh 12:30- 14:30, by Collaborate MW 3-5. Or by appointment

This course is designed for students whose score on an approved assessment instrument does not meet minimum requirements on the mathematics portion of the assessment. Students who wish to earn a B.S. degree take MATH 1342. Topics included in this course are collection, analysis, presentation and interpretation of data, and probability. Analysis includes descriptive statistics, correlation and regression, confidence intervals, and hypothesis-testing. Credit in this course cannot be used to satisfy requirements for any degree.

TEXTBOOK: This course and MATH 1342 use Hawkes Learning, an innovative, educational courseware platform providing instructional content and mastery-based learning to enhance student success in college courses. You will find a link to Hawkes in your MATH 1342 Blackboard course.

Hawkes support:

Chat available 24/7

<https://www.hawkeslearning.com/>

Phone support

Monday-Friday 7:00 am to 8:00 pm 800-426-9538

SUPPLIES: In addition to access to your Hawkes account, **you must have a notebook dedicated to MATH class.**

STUDENT LEARNING OUTCOMES:

After completing this course, the student should be able to demonstrate competency in the following:

- 1) The student will be able to gather, organize, calculate, and present data.
- 2) The student will be able to work with probability distributions, both discrete and continuous, and recognize the proper distribution to use for different applications.
- 3) The student will be able to estimate population proportions, means, and standard deviations.
- 4) The student will be able to use hypothesis testing on population proportions, means, and standard deviation.

SUPPLIES:

In addition to your own Hawkes access code, you must have a notebook dedicated to this class. The notebook should have dividers, pockets, and lots of paper. Pencils and erasers.

STUDENT LEARNING OUTCOMES:

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- The student will be able to gather, organize, calculate, and present data.
- The student will be able to work with probability distributions, both discrete and continuous, and recognize the proper distribution to use for different applications.
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- The student will be able to use hypothesis testing on population proportions, means, and standard deviation.

COURSE REQUIREMENTS:

Purchase the Hawks material in the book store or online. See your instructor's syllabus addendum for specific requirements. A scientific calculator will be used in class you must have your own for homework.

ACCELERATION:

You determine how quickly or slowly you complete the work associated with this course. The sooner you complete your Statics math course, the better off you will be, so please feel free to work hard and quick

ACADEMIC ETHICS:

Please remember that real success comes from learning how to do the work yourself. Your instructors believe that you are an honest individual and expect that all of the work that you do results from your own efforts. You know that a college education costs too much for you to waste your time trying to beat the system rather than figuring out how to learn the material. You know that any form of cheating is dishonest and it makes you look very bad. Your instructor will have specific responses to any academic dishonesty that s/he may encounter. A repeated instance of academic dishonesty may result in your situation being forwarded to the Dean of Student Life. Please see the *SRSU Student Handbook* for a more complete discussion of academic honesty.

ATTENDANCE POLICY:

An absence is defined as non-attendance in fifty minutes of class; for example, nonattendance in a one and one-half hour class will constitute one and one-half absences and non-attendance in a three-hour class will constitute three absences.

The instructors may, at their discretion, drop a student from a course when the student has a total of nine absences. Any student dropped for excessive absences will receive either an "F" or a "W" depending upon the faculty member's discretion.

An absence due to participation in an official University activity is considered to be an authorized absence. When a student has to miss

a class due to an authorized University activity, it will be the responsibility of the student to notify the instructor of the class in advance and to complete all assignments on time.

Being more than five minutes late or leaving before class is over will be counted as an absence!

Make-up Major Test Rules

If you plan on missing, or have already missed a test, or final exam due to a university excused absence, contact me immediately, or as soon thereafter as you can, by email at marina.kimball@sulross.edu. Otherwise I will assume that you do not plan on taking a make-up. You must then email me no later than 1 PM of the day of your exam was administered.

The makeup exam will be given as soon as possible after the original exam. I will contact everyone who missed the test with the day and time.

There will be only one, single, unitary, uno, mono, odin, 1 make-up given.

Failure to take the makeup will result in a zero (0) for the exam.

CELL PHONES:

Cell phones going off during class are disruptive. Be a considerate class member. Turn off your cell phone before class begins and keep it turned off throughout the class period. If you feel that you have an emergency situation that requires your phone being left on, speak with me before class. Should you fail to silence (including the "vibrate" function) your phone, you risk being ask to leave class and being counted absent.

Course Assessment:

Your grade will be based on the following components:

12% In-class problem solving and participation

8% Math 0342 class participation

20% Homework assignments and quizzes

60% Exams

The grading scale will be: 90 – 100 A 80 – 89 B 70 – 79 C 60 – 69 D 0 – 59 F

CO-REQUISITE MODEL:

Your MATH 0342 class is designed to provide you with support for your MATH 1342 class. Your MATH 1342

instructor will introduce a concept in class. Your MATH 0342 instructor will help ensure that you have the math skills needed to master that particular math concept. You need to attend both classes in order to be successful.

DROPPING THE COLLEGE-LEVEL COURSE

NOTE: Before dropping any class, be sure to check the impact of a withdrawal on your full-time status, financial aid status, scholarship status, and NCAA eligibility.

If, after consultation with your college-level instructor, you decide that you must drop MATH 1342, then, before the last day for students to drop a class with a “W” arrives, your college-level math instructor will determine, in consultation with your developmental education math instructor, if you have made a good faith effort to pass your college-level math course. If over the course of the semester you attend class regularly, complete homework assignments by the due date, take all quizzes and exams, but are still unable to maintain a passing grade, then your college-level math instructor has the option to allow you to drop your college-level math course with a “W.”

If your college-level math instructor certifies that you are eligible to drop the college-level math course with a “W,” then your college-level math instructor will give you a signed form that you will take to the Academic Support Center/Lobo Den so that you can be dropped from the college-level math course. Only the Lobo Den can drop you from your college-level math course and only if you have the form signed by your college-level math instructor. You are not allowed to drop any developmental education course.

You must continue to attend and participate in MATH 0342 as advised by your MATH 0342 instructor.

ACADEMIC INTEGRITY

Students in this class are expected to demonstrate scholarly behavior and academic honesty in the use of intellectual property. Students should submit work that is their own and avoid the temptation to engage in behaviors that violate academic integrity, such as 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. Students should also avoid using open AI sources unless permission is expressly given for an assignment or course. Violations of academic integrity can result in failing assignments, failing a class, and/or more serious university consequences. These behaviors also erode the value of college degrees and higher education overall.

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.

TECHNICAL SUPPORT

The Support Desk can help students with technical questions and issues such as changing passwords, submitting a document, getting videos to play, or using BlackBoard. The support desk is open 24 hours a day/7 days a week for your convenience.

You can reach the support desk:

By calling 888.837.6055

Via email blackboardsupport@sulross.edu

SRSU EMAIL

You will need to check your Sul Ross e-mail regularly. The University and faculty will communicate with students via SRSU email.

LIBRARIES

The Bryan Wildenthal Memorial Library and Archives of the Big Bend in Alpine offer 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 logging in with your LoboID and password. Librarians are a tremendous resource for your coursework and can be reached in person, by email (srsulibrary@sulross.edu), or by phone (432-837-8123).

No matter where you are based, public libraries and many academic and special libraries welcome the general public into their spaces for study. SRSU TexShare Cardholders can access additional services and resources at various libraries across Texas. Learn more about the TexShare program by visiting library.sulross.edu/find-and-borrow/texshare/ or ask a librarian by emailing srsulibrary@sulross.edu.

Mike Fernandez, SRSU Librarian, is based in Eagle Pass (Building D-129) to offer specialized library services to students, faculty, and staff. Utilize free services such as InterLibrary Loan (ILL), ScanIt, and Direct Mail to get materials delivered to you at home or via email.

SRSU 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 a 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.

ATTENDANCE POLICY:

Sul Ross State University and the State of Texas require each student liable for any portion of the Texas Success Initiative (TSI) to attend and participate in developmental coursework. If you fail to attend and/or participate, you will earn an "F" for the course. Also, it is a course requirement that you take the mid-term and final exams. Failure to do so could result in your earning an "F" for the course. All exams must be taken in the classroom.

If you must be absent, you are responsible for finding out what was covered and assigned in class in order to be prepared when you return to class. According to the University catalog, "When a student has to miss class due to an authorized university activity, it will be the responsibility of the student to notify the instructor of the class in advance [and to complete all assignments] within a reasonable time and at the convenience of the instructor."

See your instructor's syllabus addendum for specific attendance criteria.

Being more than five minutes late or leaving before class is over will be counted as an absence!

STUDENT RESPONSIBILITIES STATEMENT

All full-time and part-time students are responsible for familiarizing themselves with the Student Handbook and the Undergraduate & Graduate Catalog and for abiding by the University rules and regulations. Additionally, students are responsible for checking their Sul Ross email as an official form of communication from the university. Every student is expected to obey all federal, state and local laws and is expected to familiarize themselves with the requirements of such laws.

EXTRACURRICULAR ELIGIBILITY: If you do not pass all of your developmental education coursework (ENG 0309, ENG 0310, MATH 0332, MATH 0314, and/or MATH 0342) this semester with a grade of "C" or better, then you will not be eligible to participate in any extracurricular SRSU activities in next long semester. Extracurricular activities include, but are not limited to Student Government Association, Campus Activities, Athletics, and Rodeo.

TUTORING CENTER (located in the Library)

The Lobo Den Tutoring Center offers FREE tutoring support to help you excel in your courses. Whether you need assistance in Writing, Math, Science, or other subjects, we're here to help!

Important Information:

- **Drop-in and Scheduled Appointments:** Flexible options to fit your needs.
- **Hours of Operation:** Monday–Friday, 8:00 AM – 5:00 PM.
- **Workshops:** Attend our regularly hosted academic workshops on STEM topics and professional development, often in collaboration with specialized faculty.
- **Location:** BWML Room 128.
- **Contact Us:** For more information or to book an appointment, email tutoring@sulross.edu or call (432) 837-8726.

Looking for additional support?

- **Tutor.com** offers FREE 24/7 online tutoring in over 200 subjects, including specialized support for ESL and ELL learners with native Spanish-speaking tutors.
- **Access Tutor.com via Blackboard:** Log in to your Blackboard account to get started anytime, anywhere.

ADA STATEMENT

SRSU Accessibility Services. Sul Ross State University (SRSU) is committed to equal access in compliance with the 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 Mrs. Mary Schwartz Grisham, LPC, SRSU's Accessibility Services Director or Ronnie Harris, LPC, Counselor, at 432-837-8203 or email mschwartz@sulross.edu or ronnie.harris@sulross.edu. Our office is located on the first floor of Ferguson Hall, room 112, and our mailing address is P.O. Box C122, Sul Ross State University, Alpine. Texas, 79832.

COUNSELING

Sul Ross has partnered with TimelyCare where all SR students will have access to nine free counseling sessions. You can learn more about this 24/7/365 support by visiting [Timelycare/SRSU](https://www.timelycare.com/SRSU). The SR Counseling and Accessibility Services office will continue to offer in-person counseling in Ferguson Hall room 112 (Alpine campus), and telehealth Zoom sessions for remote students and RGC students.

TEXAS SUCCESS INITIATIVE (TSI) ADVISING:

As a developmental education student, you have a TSI hold on your records. In order for you to register for the next semester, you must see a TSI advisor in the Academic Support Center/Lobo Den (ASC), which is located in the Library/first floor; phone number is 432-837-8982.

SUPPORTIVE STATEMENT

I aim to create a learning environment for my students that supports various perspectives and experiences. I understand that the recent pandemic, economic disparity, and health concerns, or even unexpected life events may 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 a supportive 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.

Tentative Schedule Subject to Change

- **Introduction to Statistics** Week 1
 - Basic Vocabulary
 - Data Classification
- **Graphical Descriptions of Data** Week 2
 - Frequency Distributions
 - Graphical Displays of Data
 - Analyzing Graphs
- **Numerical Descriptions of Data** Week 3
 - Measures of Center
 - Measures of Dispersion
 - Measures of Relative Position
- Review and Exam 1** Week 4
- **Discrete Probability Distributions** Week 5,6
 - Discrete Random Variables
 - Binomial Distribution
- **Normal Probability Distributions** Week 6,7
 - Introduction to the Normal Distribution
 - The Standard Normal Distribution
 - Finding Probability Using a Normal Distribution
 - Finding Values of a Normally Distributed Random Variable
 - Approximating a Binomial Distribution Using a Normal Distribution
- Review and Exam 2** Week 8
- **The Central Limit Theorem** Week 9
 - Sampling distributions and The Central Limit Theorem
 - Central Limit Theorem with Means
 - Central Limit Theorem with Proportions
- **Confidence Intervals** Week 10,11
 - Estimating Population Means (σ known)
 - Student's t -Distribution
 - Estimating Population Means (σ unknown)
 - Estimating Population Proportions
- **Hypothesis Testing** Week 12,13
 - Fundamentals of Hypothesis Testing
 - Hypothesis Testing for Population Means (σ known)
 - Hypothesis Testing for Population Means (σ unknown)
- Final Review** Week 14
- Finals**