



SUL ROSS STATE UNIVERSITY
Math Department
Intro. Statistical Methods Course Syllabus
MATH 0342

COURSE TITLE: Math 0342 Intro. Statistical Methods
SECTION, CRN, CLASS DAYS & TIME: Math 0342:C05, CRN 11991, MWF1:00pm
CLASSROOM: FH 201
INSTRUCTOR: Mrs. Lamar
INSTRUCTOR'S Office: FRG 210
INSTRUCTOR'S PHONE #: 8725
INSTRUCTOR'S E-MAIL: elba.lamar@sulross.edu
INSTRUCTOR'S OFFICE HOURS: MWF: 10:55 -12:55, MW 1:55-2:40 Or by appointment

CREDIT HOURS: 3
LECTURE HOURS: 3
MANDATORY CO-ENROLLMENT: MATH 1342
TSIA PLACEMENT: a score of 336-343 OR ABE 5-6

CATALOG DESCRIPTION: MATH 0342 Intro Statistical Analysis (3-0).

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. Students must earn a grade of "C" or better to progress to the next level math course.

TEXTBOOK:

We use Hawkes Learning in this class. This is an online program and you will need to purchase access (~\$86.00). You will set up your account and get a temporary access code on Day 1. You MUST purchase your own code before the temporary code expires in approximately 10 days. You will need one access code only even though you are enrolled in two classes.

Hawkes support: chat available 24/7; or call 843-571-2825 M-F, 9:00-5:00.

NOTE: If you do not purchase your Hawkes code before your temporary code expires, you will not be able to access the lessons, and you will be responsible for any work behind.

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:

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.

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 quickly.

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!

If you are absent from class, you will want to contact a classmate and get the notes that you missed.

Class Member: _____
Phone #: _____ E-Mail: _____
Class Member: _____
Phone #: _____ E-Mail: _____

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 COMMITMENT:

You will make the decision about how long it takes you to clear your developmental math requirement. Please keep these thoughts in mind:

- 1. It costs as much to take this class (at least \$830) as it does to take any other SRSU three-hour course. Yet you know that this course does not count towards your degree. You will save a lot of money and time if you decide to clear your developmental math requirement as quickly as possible.
- 2. You are the only one who can make the commitment to be successful in this class. You will decide how much time you end doing homework, asking your instructor questions, and visiting with a tutor. So come to class and complete this course with a grade of “D” or better this semester.

STUDENT ASSISTANCE:

Tutors are available in the Tutoring and Learning Center, 1st floor of the Library, free of charge. Please check with the Tutoring and Learning Center for hours and days of tutor availability.

ADA Statement: ADA (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.

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 Lobo Den. Lobo Den is located in Lawrence Hall, Room 102 and their phone number is 432-837-8982.

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.*

Technical Support

The Support Desk is where you can direct your more technical questions. For example, the Support Desk can help you if you are having issues 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 24 hours a day/7 days a week :

By calling 888.837.6055

Via email blackboardsupport@sulross.edu

You can also have access to Hawkes Tech Support: on-line 24/7 at Hawkeslearning.com

You will want to check your Sul Ross e-mail regularly. It is an easy way for me to stay in contact with you and for you to stay in contact with me. I will use Hawkes to send messages to your class, provide you access to class assignments, and post your major paper grades.

SRSU 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).

SRSU 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.

Course Supplement Syllabus Math 0342:C05 MWF 1:00pm

Hawkes Software - Objective to be covered

- **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

<ul style="list-style-type: none"> • Discrete Probability Distributions <ul style="list-style-type: none"> -Discrete Random Variables -Binomial Distribution -Poisson Distribution -Hypergeometric Distribution 	Week 5,6
<ul style="list-style-type: none"> • Normal Probability Distributions <ul style="list-style-type: none"> -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 	Week 6,7
Review and Exam 2	Week 8
<ul style="list-style-type: none"> • The Central Limit Theorem <ul style="list-style-type: none"> -Sampling distributions and The Central Limit Theorem -Central Limit Theorem with Means -Central Limit Theorem with Proportions 	Week 9
<ul style="list-style-type: none"> • Confidence Intervals <ul style="list-style-type: none"> -Estimating Population Means (σ known) -Student's t-Distribution -Estimating Population Means (σ unknown) - Estimating Population Proportions - Estimating Population Variances 	Week 10,11
<ul style="list-style-type: none"> • Hypothesis Testing <ul style="list-style-type: none"> -Fundamentals of Hypothesis Testing -Hypothesis Testing for Population Means (σ known) -Hypothesis Testing for Population Means (σ unknown) 	Week 12
Review and Exam 3	Week 13
Final Review and Thanksgiving Break.	Week 14
Finals	Dec 3, 6-8