SUL ROSS STATE UNIVERSITY – BEHAVIORAL AND SOCIAL SCIENCES DEPARTMENT
PSY 3305 COURSE SYLLABUS ~ FALL 2024

Course Title: Introduction to Statistics for Behavioral Sciences (Virtual Delivery)

Required Text: **APA PsycLearn** – Statistics for the Behavioral Sciences

Recommended Text: Watt, W., & Collins, E. (2023). *Statistics for psychology: A beginner's guide*. (2nd ed.). Sage.

Contact Information: A. M. Trotman, PhD – alicia.trotman@sulross.edu

Office (LH 306) Hours: Mondays (2:30 to 5:00pm), Tuesdays (2:00 to 6:00pm), & Wednesdays (2:30 to 5:00pm)
Appointment: https://calendly.com/amtsulross/office-hours-appointment

Prerequisites: Algebra or Introductory Statistics (MATH 1342)

COURSE DESCRIPTION:
The student will acquire an understanding of the statistics as a professional tool in social and behavioral sciences with major emphasis on data description, organization, analysis and minor emphasis on prediction.

STUDENT LEARNING OUTCOMES:
MAJOR:
1) Given the required inclusion of statistical analyses in journal articles, students can read and comprehend basic quantitative results.
   Method of Assessment: Discussion, participation and exams

2) Given large sets of numeric data, the student can identify and describe the use of descriptive statistics, distinguishing among the four measurement scales, calculating frequencies and creating accompanying charts.
   Method of Assessment: Discussion, quizzes, participation and exams

3) Given the nature of the hypotheses that examine samples to draw conclusions or make predictions of populations, the student can execute inferential statistics, identify independent and dependent variables and perform correlations and hypothesis testing.
   Method of Assessment: Discussion, quizzes, participation and exams

4) Given the consistency and inconsistency of various measures, and the likelihood of unique findings, students can calculate measures of central tendency, dispersion and probability.
   Method of Assessment: Quizzes, participation and exams

5) Given the likelihood of errors that can occur in a sampling distribution that are typical or atypical, students can conduct central limit theorem, z-scores and sampling distribution of means analyses.
   Method of Assessment: Quizzes, participation and exams

COURSE REQUIREMENTS:
1) **The text MUST be obtained**. If you want to *seriously* pass this class, you must purchase the textbook.

2) Respect for students and lecturer must be always maintained when we meet. 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. We will do our best to embrace the difficulty of fruitfully discussing controversial and sensitive issues. Respect is a basic human characteristic that entitles each person to their own rights and identity. It also helps to nurture a healthy learning environment. If you recognize that respecting others may be a problem, please be courteous and alert me or more suitable personnel (e.g. Sul Ross State University psychologists, family members, lecturers, close friends) and or refer to the Student Conduct and Discipline section of the [SRSU Student Handbook](#).

SRSU DISABILITY AND COUNSELING SERVICES:

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 Schwartze Grisham, LPC, SRSU's Accessibility Services Director or Ronnie Harris, LPC, Counselor, at 432-837-8203 or email mschwartze@sulross.edu or ronnie.harris@sulross.edu. RGC students can also contact Alejandra Valdez, at 830-758-5006 or email alejandra.valdez@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.

Sul Ross has partnered with TimelyCare where all SR students will have access to nine free counseling sessions. You can learn more about this 24/7/356 support by visiting Timelycare/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.

LIBRARY SERVICES STATEMENT

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.

HONORING ACADEMIC INTEGRITY

Students in this class are expected to demonstrate scholarly behavior and academic honesty in the use of intellectual property. A scholar is expected to be punctual, prepared, and focused; meaningful and pertinent participation is appreciated. 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. Other instances of academic misconduct are lying in connection with your academic work, cheating, misrepresenting facts and/or collusion and **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 All these are contrary to the purpose of any educational institution and will be dealt with **most severely** to the extent of the university's disciplinary policy and/or through legal action if indicated. An instructor who determines that a student has been dishonest academically can at a minimum issue no credit for the assignment/exam, and/or pursue more severe penalties, including but not limited to failing the course. Further information about *Academic Honesty* can be read in the [SRSU Student Handbook](.).

MARKETABLE SKILLS

1. <u>Speaking Effectively</u>: Students will demonstrate competency in public speaking and communicating scientific information to diverse audiences.
2. <u>Describing Feelings</u>: Students will demonstrate empathic or active listening and conversational skills, and/or write clearly about their affective stance, respectfully attuned to the needs of their audiences.
3. <u>Identifying Resources</u>: Students will demonstrate the aptitude to locate, organize and evaluate the credibility of information from multiple sources.
4. <u>Analyzing</u>: Students will demonstrate ability to examine the underlying issues of a scientific problem, attending to the pertinent details and creating a plan of action, recognizing ambiguity and complexity as essential components.

ATTENDANCE AND PARTICIPATION

This is a course that requires online and in class experience and discussion. **Class attendance <u>IS REQUIRED</u> and participation is important IN CLASS and ONLINE.**

If for any reason we need to move online, Thursday classes will be recorded and hosted via Blackboard Collaborate.

Class participation and attendance will be worth **20%** of the final grade. Attendance accounts for a significant amount of your final grade because *absences* affect your ability to complete the considerable number of assignments for this class and **more importantly**, **pass this class**.

PARTICIPATION - You are expected to be actively involved online and/or in person. *Active involvement includes prompt and regular attendance, active listening, practicing textbook questions, participating via an online poll or quiz, and engaging in in-class and online discussions*. Besides attendance, all other forms of participation judged subjectively by me that showcases active involvement will <u>increase</u> your participation grade.

ATTENDANCE - Class attendance is governed by the SRSU policy stated in the schedule of classes. If you are unable to attend a class session, please discuss the reason with me and arrange with another student to obtain any notes, handouts or assignments you may have missed. Excused absences entail established religious observance, or providing emergency, university-authorized, legal or medical documentation. Excessive <u>unexcused</u> absences (**more than 4 missed class sessions**) will result in a failing grade for the course. If you recognize that you will need extra assistance in reviewing statistics (more than I can provide), it is recommended that you make an appointment with the tutoring center in the Library or form a study group that meets regularly to review the material. In addition, many students spend significant time reviewing Youtube and Khan Academy videos.

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 [SRSU Student Handbook](#).

THE ONLINE SUPPORT DESK
The Support Desk is where you can direct your more technical questions. For example, if you are having issues submitting a document, getting videos to play, or you are dealing with a technical error in the course. 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

- Using resources from the Technology Support tab within blackboard

- Clicking the Support Desk graphic on the course homepage

REGULAR COMMUNICATIONS WITH THE PROFESSOR - It is essential that you keep me current on your progress and any difficulties you may be having so that I can respond in real time to support your success. The most efficient way of contacting me is the VIRTUAL OFFICE on Black Board and/or the syllabus which provides you with contact hours for the rest of the semester. GENERAL QUESTIONS are to be posted to a discussion board for all. For PERSONAL or PRIVATE ISSUES email me at Alicia.trotman@sulross.edu or leave a voice mail message (432-837-8147) or make an appointment with me (https://calendly.com/amtsulross/office-hours-appointment) or text me on Microsoft Teams. I strive to respond as soon as possible. If you do not receive a reply within 24 hours during the work week, please resend your email or text me.

COURSE BEHAVIORS - RESPECT AND DISRUPTIONS - Watch the VIDEO on NETTIQUETTE - https://www.youtube.com/watch?v=FWMk_Zv7nB8 and https://www.youtube.com/watch?v=80uRE972uQ0 .
You are encouraged and expected to openly engage in discussions, ask questions, share ideas, and express your thoughts in this web-based course in the same manner as in a face-to-face course. Please treat each other with dignity and respect and avoid disruptive behaviors. You are responsible for knowing what behaviors are acceptable versus unacceptable as referred to in the Student Conduct and Discipline section of the [SRSU Student Handbook](#).

CELL PHONE AND COMPUTER USE: During the entire class period, you should be fully engaged in the class's activity. Laptop computers or phones are welcomed for the academic purposes of note taking or following along with the instructor's lesson. Off-topic activity (e.g., reading texts or posts, checking email, game playing) not directly related to the class is considered extremely disrespectful and can result in being marked "absent" for the day.

EVALUATION:

EXAMS: Two (2) exams will be given during the course of this term. These exams will be completed with your assigned partner. These exams will require computer use. All exams will be due at the start of the next class session. **No late exams will be accepted** unless for excused absences (see attendance). All exams will be worth the 20% of the total of the final grade. If your absence is excused the day the exam is given, it will be *your responsibility* to reschedule a date **at most one day** after the missed exam with me.

QUIZZES: These quizzes are marked as (Q) below, and in the course schedule and there will be fourteen (14) quizzes given during the course of this term on Blackboard. The dates of the quizzes are planned for the dates listed below in the class schedule. All quizzes will be worth 60% of the final grade. Please note that there will be no make-up quizzes (see attendance).

LATE QUIZZES/EXAMS: You are expected to meet quiz/exam deadlines. Quizzes submitted after their due dates will be scored **zero** for unexcused absences. For excused absences (university-authorized, legal or medical issues), speak with me **before the absence** so arrangements can be made.

GRADING

Students are expected to complete assignments prior to class sessions and to engage in thoughtful discussions in light of these assignments. In addition to completing the SPSS assignments on time, students will be required to work frequently on their research paper for the final grade and presentation.

Attendance & Participation:	200 points	20%
Exams (2[100])	200 points	20%
Quizzes (14[40])	560 points	56%
Assignment	40 points	4%
TOTAL:	**1000 points**	**100%**

COURSE OUTLINE

(This schedule and the topics listed above are subject to modification by the instructor.)

UNIT 1 – STATISTICAL DEFINITIONS AND FREQUENCIES

Day	Content	Materials
Aug. 27th & 29th	Introductions… Using Blackboard for the course Why do we need Statistics? (1) (Aug. 29th – Last day for late registration and schedule changes)	Blackboard; Statistics Textbook
Homework	**PURCHASE TEXTBOOK** Read Chapter 1 – Why do we need Statistics?	
Sep. 3rd & Sept. 5th **MODULE 1**	The Research Cycle (2) (Sept. 2nd – *Labor Day*)	Blackboard; Statistics Textbook
Homework	Read Chapter 1 – Why do we need Statistics? & Chapter 2 – The Research Cycle *(Q1) Quiz 1 on Chapter 1;*	
Sept. 10th & 12th **MODULE 2**	The Research Cycle (2) (September 11th – Last day to drop classes without creating an academic record)	Blackboard; Statistics Textbook
Homework	Read Chapter 3 - Variables	

	(Q2 & Q3) Quizzes 2 & 3 [Vocabulary] on Chapter 2	
Sept. 17th & 19th **MODULE 3**	Variables (3)	Blackboard; Statistics Textbook
Homework	Read Chapter 3 - Variables (Q4) Quiz 4 on Chapter 3	
Sept. 24th & 26th **MODULE 4**	Variables (3) – Measures of Central Tendency & Dispersion	Blackboard; Statistics Textbook
Homework	Read Chapter 4 – Relationships between Variables (Q5) Quiz 5 on Chapter 3	

UNIT II: MEASURES OF DISPERSION

Day	Content	Materials
October 1st & 3rd **MODULE 5**	Relationships between Variables (4)	Blackboard; Statistics Textbook
Homework	(Q6 & Q7) Quizzes 6 & 7 [Vocabulary] on Chapters 3 & 4 Read Chapter 5 – Uncertainty	
October 8th & 10th **MODULE 6**	Uncertainty (5)	Blackboard; Statistics Textbook
Homework	Review Quizzes Chapters 1 through 5	
October 15th & 17th **MODULE 7**	Review – October 17th **Midterm Exam: Thursday October 17th**	Blackboard; Statistics Textbook
Homework	Read Chapter 6 – Null Hypothesis Testing	
October 22nd & 24th **MODULE 8**	Null Hypothesis Testing (6)	Blackboard; Statistics Textbook
Homework	Read Chapter 7 – Statistical Tests for One Independent Variable (Q8) Quiz 8 on Chapter 5;	

UNIT III: INFERENTIAL STATISTICS

Day	Content	Materials
Oct. 29th & 31st **MODULE 9**	Statistical Tests for One Independent Variable (7)	Blackboard; Statistics Textbook
Homework	Read Chapter 7 - Statistical Tests for One Independent Variable *(Q9 & Q10) Quiz 9 & Quiz 10[Vocabulary] on Chapters 6 & 7*	
Nov. 5th & 7th **MODULE 10**	Statistical Tests for One Independent Variable (7)	Blackboard; Statistics Textbook
Homework	Read Chapter 8 - Minimizing Uncertainty: Research Design *(Q11) Quiz 11 on Chapter 7* (November 8th: LAST Day to withdraw from the 16-week course with grade of 'W')	
Nov. 12th & 14th **MODULE 11**	Minimizing Uncertainty: Research Design (8) (November 12th: LAST Day to apply for Fall graduation) (November 15th: LAST Day to apply for Spring 2024 graduation without a late fee)	Blackboard; Statistics Textbook
Homework	Read Chapter 9 - Measurements & Uncertainty *(Q12 & Q13) Quiz 11 & Quiz 13 on Chapter 8*	
Nov. 19th & 21st **MODULE 12**	Measurements & Uncertainty (9)	Blackboard; Statistics Textbook
Homework	*(*Read Chapter 10 - Sampling & Uncertainty *(Q14) Quiz 14 on Chapter 9*	
Nov. 26th **MODULE 13**	Measurements & Uncertainty (9) *Thanksgiving Break:* Wednesday November 27th to Friday November 29th	Blackboard; Statistics Textbook
Homework	*Practice for Final Exam*	
Dec. 3rd **MODULE 14**	Make-Up Day Review of Quizzes 8 through 14	Blackboard; Statistics Textbook
Homework	Study for Final Exam	
Monday Dec. 9th **(10:15am to 12:15pm)**	**Final Exam**	
Congratulations on finishing the course!		