



TEXAS A&M UNIVERSITY
SAN ANTONIO

Psychological Research and Statistics I

PSYC 2388-004 | CRN 12931 | Fall 2025

Science & Technology Building | Room 122 | MW 11:00 AM – 12:15 PM

Professor: Jacqueline Lechuga, Ph.D.

E-mail: jlechuga@tamusa.edu

Office Hours: MW 12:30 PM to 1:45 PM or by appointment

Office: Science & Technology Building, Room 249B

COURSE DESCRIPTION

An introduction to the methods and analysis of data from psychological studies. Fundamental concepts and techniques of both descriptive and inferential statistics and their application to psychological research.

Prerequisites: PSYC 2301 and MATH 1314 or MATH 1342

COURSE NOTE

This course is part of a sequence of courses. Further, this course lays the foundation for all other psychology courses you may take. It is a challenging, but incredibly important course. Truly learn the material, and all the classes after this one will be easier.

REQUIRED COURSE MATERIALS

- **Textbook:** McBride, D. (2019). The Process of Research and Statistical Analysis in Psychology. Sage.
- **Workbook:** McBride, D. (2019). Lab Manual for Psychological Research and Statistical Analysis. 1st Edition.
 - ISBN for textbook and workbook bundle: 9781544389165
- **Handbook:** American Psychological Association. (2019). Publication manual. 7th edition.
- **Calculator:** You will use a simple calculator. Please do not buy or bring a scientific or graphing calculator. The use of phones to make calculations will not be allowed.
- **Other Materials:** You will need Scantron 882-E forms (available in the bookstore) and pencils for all exams.

CONTACT GUIDELINES

I will strive to be available to aid your learning process by providing several ways to contact me:

- **Email:** Please only use official university e-mail and include the course, section, and full name in the subject line. Please do not use Blackboard messages. The email noted above is my primary and preferred point of contact outside of the classroom.

- I will check my email regularly on Monday – Friday from 8:00 am to 5:00 pm. I will generally respond within 24 hours of your email. If you do not receive a reply after 24 hours, please email again and/or follow up directly with me in class or during office hours (see above). I will not be available by email during the weekends. Any emails received during the weekend will be replied to on the subsequent Monday. Please plan accordingly. Especially when it comes to clarifying assignment instructions and/or submission requirements.

In all communications, please be professional in your tone and specific in your message (i.e., avoid informal correspondence styles like text messaging which lack appropriate punctuation and capitalization). Your correspondence **MUST** include the information specified above. If you send an email without sufficient information, I likely will not reply or may reply asking for clarification about your inquiry (this can result in an unnecessary delay). Please begin a new email thread instead of responding to older emails if you are beginning a new conversation unrelated to the previous email (this helps minimize confusion caused by chain replies).

- **Office Hours:** I will be available in my office (STEM 249B) to meet during office hours (see above) or by appointment. Office hours are dedicated to interacting with and providing students assistance regarding coursework. An appointment is not necessary to attend these hours, but interactions are limited to a first-come, first-served basis. If there is a specific assignment/materials or topic you want to discuss, providing advance notice will allow me to have these resources ready. If students cannot meet during these times, an alternative time can be requested via email, and I will do my best to try to accommodate students accordingly. For discussions involving more personal and/or sensitive information, some form of advance notice is recommended.

STUDENT LEARNING OUTCOMES

Student learning outcomes are based on the Specific Learning Objectives from APA Guidelines for Psychology Majors: <http://www.apa.org/ed/precollege/about/psymajor-guidelines.pdf>

In this class, the following student learning outcomes are expected:

- 1.3 Describe applications of psychology
- 2.1 Use scientific reasoning to interpret psychological phenomena
- 2.2 Demonstrate psychology information literacy
- 2.3 Engage in innovative and integrative thinking and problem solving
- 2.4 Interpret, design, and conduct basic psychological research
- 2.5 Incorporate sociocultural factors in scientific inquiry
- 3.1 Apply ethical standards to evaluate psychological science and practice
- 3.2 Build and enhance interpersonal relationships
- 4.1 Demonstrate effective writing for different purposes
- 4.2 Exhibit effective presentation skills for different purposes
- 4.3 Interact effectively with others

- 5.1 Apply psychological content and skills to career goals
- 5.2 Exhibit self-efficacy and self-regulation
- 5.3 Refine project management skills
- 5.4 Enhance teamwork capacity
- 5.5 Develop meaningful professional direction for life after graduation

ASSESSMENT & EVALUATION

All assignments will be administered from and turned into Blackboard. No paper copies will be accepted unless otherwise noted. Late work will not be accepted without a university-approved excuse and/or advance notice with instructor approval. Additionally, you are expected to complete all work independently (see Academic Integrity section for more details on independent work).

The following descriptions are intentionally brief. Detailed instructions will be available in class and through Blackboard throughout the semester. Each assignment will have a specific set of instructions students will be required to follow.

- **Homework Assignments – 20 points.** Ten homework assignments will be administered throughout the semester, each worth 20 points. The topic/format of the homework assignment will depend on the content for the week.
- **Exams – 80 points.** Four exams will be administered, each worth 80 points. Exam 1, Exam 2, and Exam 3 will be non-cumulative. Exam 4 (i.e., the final exam) will be cumulative. The exams will have questions that will vary in format (e.g., multiple choice, fill-in-the-blank). Exams will only be offered on the dates and times listed in the course schedule. There are no make-up opportunities for the exams once the deadline has passed. The only exceptions to this policy are valid excuses for absences (see Missed/Late Assignment Policy). The exam with the lowest grade will be dropped.
- **Final Paper – 80 points.** You will be required to complete a final paper that will consist of writing the methods, results, and discussion sections for an experiment in APA format. Detailed instructions for the final paper (e.g., format, length) and rubric will be posted on Blackboard.
- **Extra Credit Opportunity (Study Guides) – 5 points.** You will be given a review for all your exams. Submissions of a completed review worksheet before the review session will receive 5 points.

GRADING

Course Component	Value	Number	Total
Homework Assignments	20	10	200
Exams	80	3	240
Final Term Paper	80	1	80
TOTAL			520 possible points

MISSED/LATE ASSIGNMENTS POLICY

Missed assignments will be assigned a grade of zero. You must e-mail your instructor about a missed assignment before the due date or as soon as possible after the emergency that causes you to miss the deadline. ***You will not be allowed to earn credit for late assignments and will receive a zero for that assignment unless you experience an emergency/illness. Excused absences include family emergencies and death in the family. Work conflicts or difficulty with parking do not count as legitimate reasons.***

- Legitimate reasons include, but are not limited to:
 - Illness and/or injury (personal)
 - Illness of a friend or family member that requires your assistance
 - Transportation
 - Athletic and/or organizational obligation
 - Death or injury of a friend or family member
- Non-legitimate reasons:
 - Vacation
 - Lack of preparation and/or just not feeling like it

Late coursework will not be accepted for reasons other than those outlined above.
Blackboard will not display grades attempted after the deadline posted on Blackboard.

IMPORTANT POLICIES AND RESOURCES

ACADEMIC ACCOMMODATIONS FOR INDIVIDUALS WITH DISABILITIES

Texas A&M University-San Antonio is committed to providing all students with reasonable access to learning opportunities and accommodations in accordance with The Americans with Disabilities Act, as amended, and Section 504 of the Rehabilitation Act.

If you experience barriers to your education due to a disability or think you may have a disability, the Disability Support Services office is located in the Central Academic Building, Suite 210. You can also contact us via phone at (210) 784-1335, visit us at <https://www.tamusa.edu/Disability-Support-Services/index.html> or email us at dss@tamusa.edu.

Disabilities may include, but are not limited to, attentional, learning, mental health, sensory, physical, or chronic health conditions. All students are encouraged to discuss their disability-related needs with Disability Support Services and their instructors as soon as possible.

ACADEMIC LEARNING CENTER

The Academic Learning Center provides free course-based tutoring to all currently enrolled students at Texas A&M University-San Antonio. Students wishing to work with a tutor can make appointments through the Brainfuse online tutoring platform. Brainfuse can be accessed in the Tools section of Blackboard.

You can contact the Academic Learning Center by emailing tutoring@tamusa.edu, calling (210) 784-1307, or visiting the Central Academic Building, Room 202.

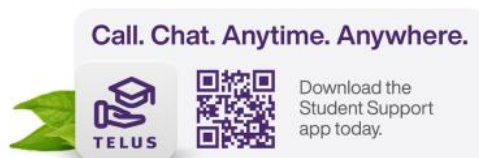
COUNSELING/MENTAL HEALTH RESOURCES

As a college student, there may be times when personal stressors interfere with your academic performance and negatively impact your daily functioning. If you are experiencing emotional difficulties or mental health concerns, support is available to you through the Student Counseling Center (SCC). To schedule an appointment, call 210-784-1331 or visit MADLA, Room 120.

All mental health services provided by the SCC are free and confidential (as the law allows). The SCC provides brief individual and group therapy, crisis intervention, consultation, case management, and prevention services. For more information on SCC services visit tamusa.edu/studentcounseling

Crisis support is available 24/7 by calling the SCC at 210-784-1331 (for after-hours select option '2').

Additionally, the TELUS Student Support App provides a variety of mental health resources including support for in-the-moment distress, an anonymous peer-to-peer support network, mental health screenings, podcasts, and articles to improve your mental well-being.



EMERGENCY PREPAREDNESS

JagE Alert is Texas A&M University-San Antonio's mass notification. In the event of an emergency, such as inclement weather, students, staff, and faculty - who are registered - will have the option to receive a text message and/or email with instructions and updates. To register or update your information visit: <https://tamusa.bbcportal.com/>.

More information about the Emergency Operations Plan and the Emergency Action Plan can be found here: <https://www.tamusa.edu/about-us/emergency-management/>.

Download the SafeZone App (<https://safezoneapp.com/>). For emergencies call (210) 784-1911. For non-Emergencies call (210) 784-1900.

FINANCIAL AID AND VERIFICATION OF ATTENDANCE

According to the following federal regulation, 34 CFR 668.21: U.S. Department of Education (DoE) Title IV regulation, a student can only receive Title IV funds based on Title IV eligibility criteria which include class attendance. If Title IV funds are disbursed to ineligible students (including students who fail to begin attendance), the institution must return these funds to the U.S. DoE within 30 days of becoming aware that the student will not or has not begun attendance. Any student receiving federal financial aid who does not attend by the census date will have their financial aid terminated and returned to the DoE. Please note that for any student who stops attending at any time during the semester, a Care Report will be submitted, and you will possibly be dropped from the class. Your financial aid may have to be recalculated, and a portion of your federal aid may have to be returned to the DoE.

WRITING, LANGUAGE, AND DIGITAL COMPOSING CENTER

The Writing, Language, and Digital Composing Center supports graduate and undergraduate students in all three colleges as well as faculty and staff. Tutors work with students to develop reading skills, prepare oral presentations, and plan, draft, and revise their written assignments. Our language tutors support students enrolled in Spanish courses and students composing in Spanish for any assignment. Our digital studio tutors support students working on digital projects such as e-portfolios, class presentations, or other digital multimedia projects.

Students can schedule appointments through JagWire under the Student Services tab. Click on "Writing, Language, and Digital Composing Center" to make your appointment. The Center offers face-to-face, synchronous online, and asynchronous digital appointments. More information about what services we offer, how to make an appointment, and how to access your appointment can be found on our website at <https://www.tamusa.edu/academics/>.

MEETING BASIC NEEDS

Any student who has difficulty affording groceries or accessing sufficient food to eat every day or who lacks a safe and stable place to live and believes this may affect their performance in the course, is urged to submit a CARE referral (<https://www.tamusa.edu/university-policies/Student-Rights-and-Responsibilities/file-a-report.html>) for support. Furthermore, please notify the professor if you are comfortable in doing so. This will enable them to direct you to available resources.

MILITARY AFFAIRS

Veterans and active-duty military personnel are welcome and encouraged to visit the Office of Military Affairs for any questions involving federal or state VA Education Benefits. Visit the Patriots' Casa building, Room 202, or contact the Office of Military Affairs with any questions at military.va@tamusa.edu or (210)784-1397.

RELIGIOUS OBSERVANCES

Texas A&M University-San Antonio recognizes the diversity of faiths represented among the campus community and protects the rights of students, faculty, and staff to observe religious holidays according to their traditions. Under the policy, students are provided with an opportunity to make up any examination, study, or coursework requirements that may be missed due to a religious observance provided they notify their instructors before the end of the second week of classes for regular session classes.

THE SIX-DROP RULE

Students are subject to the requirements of Senate Bill (SB) 1231 passed by the Texas Legislature in 2007. SB 1231 limits students to a maximum of six (6) non-punitive course drops (i.e., courses a student chooses to drop) during their undergraduate career. A non-punitive drop does not affect the student's GPA. However, course drops that exceed the maximum allowed by SB 1231 will be treated as "F" grades and will impact the student's GPA.

STATEMENT OF HARASSMENT AND DISCRIMINATION: Texas A&M University-San Antonio is committed to the fundamental principles of academic freedom, equal opportunity, and human dignity. To fulfill its multiple missions as an institution of higher learning, Texas A&M-San Antonio encourages a climate that values and nurtures collegiality and the uniqueness of the individual within our state, nation, and world. All decisions and actions involving students and employees should be based on applicable law and individual merit. Texas A&M University-San Antonio, in accordance with applicable federal and state law, prohibits discrimination, including harassment, on the basis of race, color, sex, religion, national origin, age, disability, genetic information, veteran status, sexual orientation, gender identity, gender expression, or pregnancy/parenting status. Individuals who believe they have experienced harassment or discrimination prohibited by this statement are encouraged to contact the University's Civil Rights Officer at 210-784-2061 or titleix@tamusa.edu.

Texas A&M University-San Antonio faculty are committed to providing a safe learning environment for all students and the university as a whole. If you have experienced any form of sex- or gender-based discrimination or harassment, including sexual assault, sexual harassment, domestic or dating violence, or stalking, know that help and support are available. Texas A&M-San Antonio's Title IX Coordinator can support those impacted by such conduct in navigating campus life, accessing health and counseling services, providing academic and housing accommodations, and more. The university strongly encourages all students to report any such incidents to the Title IX Coordinator. Please be aware that all Texas A&M-San Antonio employees (other than those designated as confidential resources such as counselors and trained victim advocates) are required to report information about such discrimination and harassment to the university. This means that if you tell a faculty member about a situation of sexual

harassment, sexual violence, or other related misconduct, the faculty member must share that information with the university's Title IX Coordinator (titleix@tamusa.edu, 210-784-2061, CAB 439K). If you wish to speak to a confidential employee who does not have this reporting requirement, you can contact the Student Counseling Center at (210) 784-1331 or visit them in MADLA 120.

PREGNANT/PARENTING STUDENTS

Texas A&M-San Antonio does not require a pregnant or parenting student, solely because of that status or issues related to that status, to (1) take a leave of absence or withdraw from their degree or certificate program; (2) limit the student's studies; (3) participate in an alternative program; (4) change the student's major, degree, or certificate program; or (5) refrain from joining or cease participating in any course, activity, or program at the University. The university will provide such reasonable accommodations to pregnant students as would be provided to a student with a temporary medical condition that is related to the health and safety of the student and the student's unborn child. These could include maintaining a safe distance from substances, areas, and activities known to be hazardous to pregnant individuals and their unborn child; excused absences because of illness or medical appointments; modified due dates for assignments; rescheduled tests/exams; taking a leave of absence; and being provided access to instructional materials and video recordings of lectures for excused absences, if these would be provided to any other student with an excused absence. Pregnant/parenting students are encouraged to contact the Title IX Coordinator with any questions or concerns related to their status (titleix@tamusa.edu; 210-784-2061; CAB 439K).

Texas A&M-San Antonio has also designated the Title IX Coordinator as the liaison officer for current or incoming students who are the parent or guardian of a child younger than 18 years of age. The Title IX Coordinator can provide students with information regarding support services and other resources.

YOUNG JAGUARS

Young Jaguars can support parenting students with daycare who meet these criteria: Must be enrolled in classes at TAMUSA in the current semester. Must be Pell eligible or a single parent. They serve children ages 3 to 12-years-old. Children must be enrolled in Pre-K-3 through 6th grade. For more information please email youngjaguars@tamusa.edu or call (210) 784-2636.

STUDENTS' RIGHTS AND RESPONSIBILITIES

The following statement of students' rights and responsibilities is intended to reflect the philosophical base upon which University Student Rules are built. This philosophy acknowledges the existence of both rights and responsibilities, which are inherent to an individual not only as a student at Texas A&M University-San Antonio but also as a citizen of this country.

- Students' Rights
 1. A student shall have the right to participate in a free exchange of ideas, and there shall be no University rule or administrative rule that in any way abridges the

rights of freedom of speech, expression, petition, and peaceful assembly as set forth in the U.S. Constitution.

2. Each student shall have the right to participate in all areas and activities of the University, free from any form of discrimination, including harassment, on the basis of race, color, national or ethnic origin, religion, sex, disability, age, sexual orientation, gender identity, gender expression, and pregnancy/parenting or veteran status in accordance with applicable federal and state laws.
 3. A student has the right to personal privacy except as otherwise provided by law, and this will be observed by students and University authorities alike.
 4. Each student subject to disciplinary action arising from violations of university student rules shall be assured a fundamentally fair process.
- **Students' Responsibilities**
 1. A student has the responsibility to respect the rights and property of others, including other students, the faculty, and the administration.
 2. A student has the responsibility to be fully acquainted with the published University Student Rules found in the Student Handbook, Student Code of Conduct, on our website, and University Catalog, and to comply with them, as well as with federal, state, and local laws.
 3. A student has the responsibility to recognize that student actions reflect upon the individuals involved and upon the entire University community.
 4. A student has the responsibility to recognize the University's obligation to provide a safe environment for learning.
 5. A student has the responsibility to check their university email for any updates or official university notifications.

We expect that students will behave in a manner that is dignified, respectful, and courteous to all people, regardless of sex, ethnic/racial origin, religious background, sexual orientation, or disability. Conduct that infringes on the rights of another individual will not be tolerated.

Students are expected to exhibit a high level of honesty and integrity in their pursuit of higher education. Students engaging in an act that violates the standards of academic integrity will find themselves facing academic and/or disciplinary sanctions. Academic misconduct is any act, or attempt, which gives an unfair advantage to the student. Additionally, any behavior specifically prohibited by a faculty member in the course syllabus or class discussion may be considered as academic misconduct.

For more information on academic misconduct policies and procedures please review the Student Code of Conduct (<https://www.tamusa.edu/university-policies/student-rights-and-responsibilities/documents/Student-Handbook-2022-23.pdf>) or visit the resources available in the OSRR website (<https://www.tamusa.edu/university-policies/student-rights-and-responsibilities/academic-integrity.html>).

ARTIFICIAL INTELLIGENCE

This course assumes that all work submitted by students will be generated by the students themselves, working individually or in groups. Students should not have another person/entity do

the writing of any portion of an assignment for them, which includes hiring a person or a company to write assignments and/or using artificial intelligence (AI) tools like ChatGPT. Use of any AI-generated content in this course qualifies as academic dishonesty and violates Texas A&M-San Antonio's standards of academic integrity.

IMPORTANT DATES: FALL 2025 REGULAR 16-WEEK SESSION

August 25	First day of class
September 1	Labor Day Holiday – No classes
September 10	Census Date
November 14	Last day to drop with an automatic “W”
November 25	Last day to withdraw from the University
November 26	Study Day – No classes
November 27-29	Thanksgiving Holiday – No classes
December 4	Last day of classes
December 5	Study Day – No classes
December 6-12	Final exams
December 16	Commencement

The complete academic calendar is available online:

<https://www.tamusa.edu/academics/academiccalendar/index.html>

COURSE SCHEDULE

Any adjustments made to the course schedule will be announced in class and via Blackboard.

Week	Date	Topic	Assignments Due
1	08/25/2025	Syllabus	
	08/27/2025	Chapter 1 (Psychological Research)	
2	09/01/2025	No Class. Holiday.	
	09/03/2025	Chapter 1 (Continued) (Psychological Research)	Homework Assignment #1 (09/03/2025 by 11:59 PM)
3	09/08/2025	Chapter 2 (Research Questions and Reports)	
	09/10/2025	Chapter 2 (Continued) (Research Questions and Reports)	Homework Assignment #2 (09/10/2025 by 11:59 PM)
4	09/15/2025	Chapter 3 (Ethical Guidelines)	Homework Assignment #3 (09/15/2025 by 11:59 PM) Extra Credit Opportunity Study Guide (09/16/2025 by 11:59 PM)
	09/17/2025	Review Session	
5	09/22/2025	No Class.	
	09/24/2025	Exam 1 (Chapters 1, 2, and 3)	

6	09/29/2025	Chapter 4 (Probability and Sampling)	Homework Assignment #4 (09/29/2025 by 11:59 PM)
	10/01/2025	Chapter 5 (Scientific Method)	
7	10/06/2025	Chapter 5 (Continued) (Scientific Method)	Homework Assignment #5 (10/06/2025 by 11:59 PM)
	10/08/2025	Chapter 6 (Descriptive Statistics)	Homework Assignment #6 (10/08/2025 by 11:59 PM) Extra Credit Opportunity Study Guide (10/12/2025 by 11:59 PM)
8	10/13/2025	Review Session	
	10/15/2025	Exam 2 (Chapters 4, 5, and 6)	
9	10/20/2025	Writing Day	Homework Assignment #7 (10/20/2025 by 11:59 PM)
	10/22/2025	Chapter 7 (Independent Variables and Validity)	
10	10/27/2025	Chapter 7 (Continued) (Independent Variables and Validity)	
	10/29/2025	Chapter 8 (One-Factor Experiments)	
11	11/03/2025	Writing Day	Homework Assignment #8 (11/03/2025 by 11:59 PM)

	11/05/2025	Chapter 9 (Hypothesis-Testing Logic)	
12	11/10/2025	Chapter 9 (Continued) (Hypothesis-Testing Logic)	Homework Assignment #9 (11/10/2025 by 11:59 PM) Extra Credit Opportunity Study Guide (11/11/2025 by 11:59 PM)
	11/12/2025	Review Session	
	11/14/2025	DROP DEADLINE	
13	11/17/2025	Exam 3 (Chapters 7, 8 and 9)	
	11/19/2025	Chapter 10 (<i>t</i> -Tests)	
14	11/24/2025	Chapter 10 (Continued) (<i>t</i> -Tests)	
	11/26/2025	No Class. Holiday.	
15	12/01/2025	Writing Day	Homework Assignment #10 (12/01/2025 by 11:59 PM) Extra Credit Opportunity Study Guide (12/02/2025 by 11:59 PM)
	12/03/2025	Review Session	Final Paper Due (12/05/2025 by 11:59 PM)

16	12/08/2025	Final Exam (Cumulative) 10:00 AM to 11:50 AM	
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