



Psychological Research and Statistics I

Course Information

- **Course:** PSYC 2388-003 (CRN: 24739)
- **Location:** Science & Technology Building, Room 122
- **Time:** Mondays & Wednesdays from 9:30 AM to 10:45 AM

Contact Information

- **Professor:** Jacqueline Lechuga, Ph.D.
- **E-mail:** jlechuga@tamus.edu
- **Office Hours:** Mondays and Wednesdays from 12:30 PM to 1:45 PM or by appointment
- **Office Location:** 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 with a minimum grade of C, and MATH 1314 or MATH 1342 with a grade of C or higher.
- **Corequisites:** PSYC 2188.
- **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.
- **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. In this class, the following student learning outcomes are expected:

- 1.1 Describe key concepts, principles, and theories in psychological science
- 2.1 Exercise scientific reasoning to investigate psychological phenomena
- 2.2 Interpret, design, and evaluate psychological research
- 2.4 Use statistics to evaluate quantitative research findings
- 2.5 Incorporate sociocultural factors in scientific inquiry



- 3.1 Employ ethical standards in research, practice, and academic contexts
- 4.1 Interact effectively with others
- 4.2 Write and present effectively for different purposes
- 4.3 Provide evidence of psychological literacy
- 4.4 Exhibit appropriate technological skills to improve communication
- 5.2 Exhibit self-efficacy and self-regulation

Assessment and 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. 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:** 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:** 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:** 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):** You will be given a review for all your exams. Submissions of a completed review worksheet before the review session will receive 5 points.

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 include, but are not limited to:
 - Vacation
 - Lack of preparation and/or just not feeling like it



Important Policies and Resources

University Email Policy and Course Communications

All correspondence between professors and students must occur via university email accounts. You must have your Jaguar email account ready and working. If it is not working, contact the help desk at helpdesk@tamusa.edu or at 210-784-HELP (4357). If you don't hear back within 48 hours, contact them again. They have many requests during the first part of the semester, so you may need to follow up with them.

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, Disability Support Services is in the Central Academic Building, Suite 210. You can also contact us via phone at (210) 784-1335, visit us at the website 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 academic accommodation with Disability Support Services and their instructors as soon as possible.

Academic Learning Center

All currently enrolled students at Texas A&M University-San Antonio can utilize the Academic Learning Center for subject-area tutoring. 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. Online tutoring is also available for after hours and weekend assistance.

While tutoring hours may change based on tutor schedules and availability, the current tutoring hours for MATH in the ALC are as follows:

Day of the Week	Appointments Available	Walk-in Tutoring (No appointment needed)
Monday	8:00 AM – 6:00 PM	9:00 AM – 5:00 PM
Tuesday	8:00 AM – 6:00 PM	9:00 AM – 5:00 PM
Wednesday	8:00 AM – 6:00 PM	9:00 AM – 5:00 PM
Thursday	8:00 AM – 6:00 PM	9:00 AM – 5:00 PM
Friday	8:00 AM – 5:00 PM	11:00 AM – 4:00 PM



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, visit our website, call 210-784-1331 or visit Madla 120 between the hours of 8:00 AM and 5:00 PM.

All mental health services provided by the SCC are free and confidential (as the law allows). The Student Counseling Center provides brief individual and group therapy, crisis intervention, consultation, case management, and prevention services. Crisis support is available 24/7/365 by calling the SCC at 210-784-1331 or through the TELUS student support App.

The [TELUS Student Support App](#) provides a variety of mental health resources to include 24/7/365 support for in the moment distress, crisis support, an anonymous peer-to-peer support network, mental health screenings, podcasts, and articles to improve your mental wellbeing.

Emergency Preparedness

JagE Alert is Texas A&M University-San Antonio's mass notification system. 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, email with instructions and updates. To register or update your information visit the [Jag E Alert System website](#). You can access more information about [Emergency Operations Plan](#) and the [Emergency Action Plan on our website](#). Download the [SafeZone App](#) for emergencies or call (210) 784-1911. Non-Emergency (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. Faculty will provide the Office of Financial Aid with an electronic notification if a student has not attended by the published Census Date (the first week of class). Any student receiving federal financial aid who does not attend prior to the published Census Date (the first week of class) will have their aid terminated and returned to the DoE. Please note that any student who stops attending at any time during the semester may also need to return a portion of their federal aid.

Jaguar Writing, Language, and Digital Composing Center (WLDCC)

The Jaguar Writing Center provides writing support to graduate and undergraduate students in all three colleges as well as faculty and staff. Writing tutors work with students to develop reading



skills, prepare oral presentations, 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.

The Writing Center offers face-to-face, synchronous online, and asynchronous digital appointments. Students can schedule appointments with the Writing Center in JagWire under the **Student Services tab**. Click on **Writing, Language, and Digital Composing Center** to make your appointment. Students wanting to work in real time with a tutor can schedule an **Online Appointment**. Students wishing to receive asynchronous, written feedback from a tutor can schedule an **e-Tutoring appointment**. More information about what services we offer, how to make an appointment, and how to access your appointment can be found on the [Writing Center's website](#). The Writing Center can also be reached by emailing: writingcenter@tamusa.edu.

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 report for support](#). Furthermore, please notify the professor if you are comfortable in doing so. This will enable them to direct you to available resources. The [General's Store is a food pantry](#) that is available on campus as well.

Military Affairs

Veterans and active-duty military personnel are welcomed and encouraged to visit the Office of Military Affairs for any question involving federal or state VA Education Benefits. Visit the Patriots' Casa building, room 202, or to 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 wide variety of faiths represented among the campus community and protects the rights of students, faculty, and staff to observe religious holidays according to their tradition. Under the policy, students are provided with an opportunity to make up any examination, study, or course work 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 careers. 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, A&M-San Antonio encourages a climate that values and nurtures collegiality and the uniqueness of the individual on our campus and within our state, nation, and world. All decisions and actions involving students and employees are to 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, based on race, color, sex, religion, national origin, age, disability, genetic information, veteran status, sexual orientation, 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 for the university. If you have experienced any form of sex discrimination or harassment, including sexual assault, sexual harassment, domestic or dating violence, or stalking based on sex, know that help and support are available. 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 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 sex-based 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 reasonable accommodation for pregnant students as it 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 can support parenting students with daycare if students meet this criteria: (1) must be enrolled in classes at Texas A&M-San Antonio in the current semester, (2) must be Pell eligible or a single parent, (3) child(ren) must be aged 3 to 12-years-old, and (4) child(ren) must be enrolled in Pre-K-3 through 6th grade. For more information, please contact Young Jaguars at 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 is 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, 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 students' 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 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.

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](#) or visit the resources available in the [OSRR website](#).

Important Spring 2026 Dates

Dates	Event
January 13	Tuition and Fee Payments deadline
January 19	Martin Luther King Jr. Day – No Classes
January 20	First Day of Class
February 4	Census Date
March 6-23	Midterm grading period
March 9-14	Spring Break
April 3	Study Day – No classes
April 17	Last day to drop with an automatic withdrawal
May 1	Last day to drop a course or withdraw from the university
May 4	Last Day of Classes
May 5	Study Day – No classes
May 6-12	Final Exams
May 19	Commencement

The complete [Academic Calendar](#) as available on our website.



Artificial Intelligence Policy

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.



Course Schedule

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

Week	Date	Topic	Assignments Due
1	01/19/2026	No Class. Holiday.	None
1	01/21/2026	Syllabus	None
2	01/26/2026	Chapter 1 (Psychological Research)	None
2	01/28/2026	No Class.	None
3	02/02/2026	Chapter 1 (Continued) (Psychological Research)	Homework Assignment #1 (by 11:59 PM)
3	02/04/2026	Chapter 2 (Research Questions and Reports)	None
4	02/09/2026	Chapter 2 (Continued) (Research Questions and Reports)	Homework Assignment #2 (by 11:59 PM)
4	02/11/2026	Chapter 3 (Ethical Guidelines)	Homework Assignment #3 (by 11:59 PM)
5	02/16/2026	Review Session	Extra Credit Opportunity Study Guide (by 8:00 AM)
5	02/18/2026	Exam 1 (Chapters 1, 2, and 3)	None
6	02/23/2026	Chapter 4 (Probability and Sampling)	Homework Assignment #4 (by 11:59 PM)
6	02/25/2026	Chapter 5 (Scientific Method)	None



7	03/02/2026	Chapter 5 (Continued) (Scientific Method)	Homework Assignment #5 (by 11:59 PM)
7	03/04/2026	Chapter 6 (Descriptive Statistics)	Homework Assignment #6 (by 11:59 PM)
8	03/09/2026	No Class. Spring Break.	None
8	03/11/2026	No Class. Spring Break.	None
9	03/16/2026	Review Session	Extra Credit Opportunity Study Guide (by 8:00 AM)
9	03/18/2026	Exam 2 (Chapters 4, 5, and 6)	None
10	03/23/2026	Writing Day	Homework Assignment #7 (by 11:59 PM)
10	03/25/2026	Chapter 7 (Independent Variables and Validity)	None
11	03/30/2026	Chapter 7 (Continued) (Independent Variables and Validity)	None
11	04/01/2026	Chapter 8 (One-Factor Experiments)	None
12	04/06/2026	Writing Day	Homework Assignment #8 (by 11:59 PM)
12	04/08/2026	Chapter 9 (Hypothesis-Testing Logic)	None
13	04/13/2026	Chapter 9 (Continued) (Hypothesis-Testing Logic)	Homework Assignment #9 (by 11:59 PM)



13	04/15/2026	Review Session	Extra Credit Opportunity Study Guide (by 8:00 AM)
13	04/17/2026	DROP DEADLINE	None
14	04/20/2026	Exam 3 (Chapters 7, 8 and 9)	None
14	04/22/2026	Chapter 10 (t-Tests)	None
15	04/27/2026	Chapter 10 (Continued) (t-Tests)	None
15	04/29/2026	Chapter 10 (Continued) (t-Tests)	None
16	05/04/2026	Writing Day	Homework Assignment #10 (by 11:59 PM)
16	05/06/2026	Review Session	Extra Credit Opportunity Study Guide (by 11:59 PM) Final Paper (by 11:59 PM)
17	05/11/2026	Final Exam (Cumulative) 12:00 PM to 1:50 PM	None