Texas A&M University – Central Texas PSYC 3430-110: Statistics for the Behavioral Sciences Fall 2021

Cross-listed Online/in-person Course

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Office Hours:

Office hours (in person):

Monday: 10:00 am - 10:45 am, 2 pm - 4 pm Wednesday: 10:00 am - 10:45 am, 2 pm - 4 pm

Office hours (online):

Tuesday: 8 am - 12 pm, 1 pm - 2 pm Thursday: 8 am - 12 pm, 1 pm - 2 pm

To set up an appointment, go to: https://calendly.com/daniel-clark

WARRIOR SHIELD

Emergency Warning System for Texas A&M University-Central Texas

Warrior Shield is an emergency notification service that gives Texas A&M University-Central Texas the ability to communicate health and safety emergency information quickly via email, text message, and social media. All students are automatically enrolled in Warrior Shield through their myCT email account.

Connect to Warrior Shield by <u>911Cellular</u> [https://www.tamuct.edu/police/911cellular.html] to change where you receive your alerts or to opt out. By staying enrolled in Warrior Shield, university officials can quickly pass on safety-related information, regardless of your location.

Fall 2021 Return to Campus Plan. For the most recent campus information regarding COVID-19 see the Texas A&M University-Central Texas Fall 2021 Return to Campus Plan [https://www.tamuct.edu/covid19/]

COURSE INFORMATION

Course Overview and description

PSYC 3430. Statistics for the Behavioral Science. 4 Credit Hours.

Study measures of central tendency, variability, and correlation. Analyze applications of statistical inference to research in Psychology, reliability and validity of psychological tests and measurement, analysis of variance, multiple analysis of variance, and regression. Lab sessions will focus on use of statistical software to organize and analyze data and to the translation of raw results of statistical analyses into written APA-style Results sections.

Prerequisite(s): <u>PSYC 2301</u> and <u>MATH 1314</u> or <u>MATH 1342</u> or <u>PSYC 2317</u> or permission of department chair.

Course Objective or Goal Student Learning Outcomes

Learning outcomes (LO): Upon satisfactory completion of this course, students will:

Course Objectives:

- 1. Demonstrate factual knowledge of basic statistical vocabulary and computations. Students will define key terms in their own words. Students will calculate measures of central tendency and variability, z scores, correlation coefficients, regression equations, analyses of variance and chi-square. Students will demonstrate their ability to define terms and compute functions on Homework Problems, Chapter Quizzes (optional), and Exams.
- 2. Demonstrate factual knowledge of fundamental principles, generalizations, or theories regarding basic statistics. Students will gain understanding of basic concepts related to measures of central tendency, the normal curve, hypothesis testing, and correlational methods.
- 3. Demonstrate specific skills, competencies, and points of view needed by professionals in the field. As future professionals with a Psychology or related degree, students will need to know how to use statistical computing software to perform statistical analyses and will need to know how to write the results of these analyses in the style adopted by this field. Therefore, students will demonstrate their ability to perform statistical analyses in SPSS by analyzing data and entering the results in the appropriate APA style locations on exams.
- 4. Apply course material to improve thinking, problem solving, and decision making. Students will apply course material to improve decision making by completing many learning quests and homework assignments that include different relevant scenarios.

Required Reading and Textbook(s)

- 1. Gravetter, F.J., & Wallnau, L.B. (2012). *Statistics for the Behavioral Sciences*. Boston, MA: Pearson/Allyn & Bacon. (ISBN: 987-0205-35867-0)
- 2. American Psychological Association. (2009). *Publication manual of the American psychological association* (6th ed.). Washington, DC: Author. (ISBN: 978-1-4338-0561-5)

This is a Writing Instructive (WI) course so writing will be an integral part of my instruction and our interactions. Writing will also be a fundamental way that I measure student mastery of

course content. WI means that you will have several opportunities to work on improving your writing skills.

In this course, we will be learning how to write about statistics in addition to learning about using them. Therefore, we will be doing a class survey and using the data from that survey to write reports of statistical analyses.

COURSE REQUIREMENTS

Learning Evaluation Methods:

<u>Assignments (30%)</u>: During every week that does not have a quiz, an assignment will be given over the material that is covered during that week (17 assignments total). These assignments will be completed on Canvas in between class periods.

Content of Assignments: The assignments in this course will be a combination of content from the textbook as well as data analysis. Before an assignment, the students will be given an opportunity to practice the data analysis in the classroom.

Turning in Assignments: The assignments will be due on the indicated date (see the schedule below) before class begins and will not be accepted for credit afterwards. It is recommended that students begin the assignments a few days before the due date so that they may be able to get help if needed.

Assignment Safety Net: If a student makes a legitimate effort on an assignment and receives below a 70, the instructor may give the student the grade of a 70 for the effort.

Quizzes (45%): After completing 3-4 chapters of materials, students will take a quiz over what they have learned (5 quizzes total). These quizzes will have approximately 40-50 questions and will be comprised of both multiple choice and fill in the blank questions. Each quiz will require students to analyze data during the quiz. Students will use the computers in the classroom to analyze data and answer quiz questions.

<u>Participation (10%):</u> Although I would prefer not to give you a grade for participation, I have learned that requiring participation improves grades. Therefore, I am doing this for your benefit. This grade consists of two different types of grades. There will be 15 quest assignments and 3 discussion/reflection assignments.

<u>Lab Assignments (15%)</u>: Your lab assignments will be where you bring the things that we will learn in the classroom into the real world. For this lab, you will be learning about how to use web-based software (Qualtrics) to create surveys. You will also learn about how to effectively communicate statistical results in APA style.

Final course grades will follow the system below:

A = 90.00 + total points, B = 80.00 - 89.99 points, C = 70.00 - 79.99 points, D = 62.00 - 69.99 points, F = 61.99 or fewer points

Research Participation

Research Experience Requirement: Students in selected psychology courses (PSYC 3307, PSYC 3409, PSYC 3312, PSYC 3430, PSYC 4320) are required to engage in research experience activities as part of the course. The research experience activity involves writing summaries of peer reviewed research articles that are related to the course content. Faculty will identify which articles can be reviewed for their course, and article reviews can be submitted directly to the faculty for evaluation.

If students choose not to write article summaries, they can complete an alternative research experience by participating in research studies directly related to psychology to gain this experience.

Sign Up for Alternative Research Experience: To receive credit for this alternate research experience activity, students must create an account in SONA. The university SONA account is where students will sign up to participate in research projects (https://tamuct.sona-systems.com). Students should view the introductory tutorial video before using SONA (https://www.youtube.com/watch?v=10nT2ZU6QQ) and be sure to use their university email when signing up. Students who have problems signing up for SONA or have questions should contact the professor of the course.

Credits: Students are required to complete 3 research experience credits in this course. Credit is allotted as follows:

1 credit for each summary of a peer-reviewed, research article OR

1 credit for each hour (60 minutes) of research participation (in-person or online)

• 1/2 credit for each 1/2 hour (30 minutes) of research participation (in-person or online)

Students can use a combination of article summaries and alternative research assignments to earn their credits. There is no guarantee that there will be sufficient research participation opportunities for students to earn 100% of their credits from this alternative research experience.

Students who drop a class after having earned research experience credit cannot apply any accumulated credit from that class towards future semesters without the documented approval of the department chair; however, credits in SONA can be transferred from one course to another in the same semester. Credits from previous semesters are not permitted to be transferred for current semester use.

Penalties: Any student who has not earned all required research credits prior to the end of the semester will be penalized 1 letter grade on the final course grade.

For 16-week courses the deadline is 12pm (noon) on 12-10-21.

Posting of Grades

Grades will always be posted on Canvas. The instructor will make every effort to grade assignments as soon as possible.

Grading Policies

Late Work Policy

The assignments in this course are intended to be completed in a sequential fashion. In the years I have taught this class, I have learned that the worst thing you can do is get behind. But I know it happens. So here is my policy. When work is turned in after the due date, 10% will be deducted per day the assignment is late. However, there is one caveat. If your assignment is not turned in at the time and date it is due, you need to send me an e-mail within 24 hours (preferably through Canvas) that answers three questions. First, I want you to tell me what prevented you from turning it in on time. You do not have to be super specific, just give me something. Second, tell me how you plan on avoiding the problem from question one in the future. Third, I want you to tell me your specific plan for getting it turned in, including the date I should expect it. If you have answered these questions satisfactorily, I may reduce or remove the late penalty for your grade.

Assignment Safety Net

For the activities in the "Assignment" Category, I have a safety net policy. If a student makes a legitimate effort on an assignment and receives below a 70, the instructor may give the student the grade of a 70 for the effort.

COURSE OUTLINE AND CALENDAR

Complete Course Calendar

Date	Details	Due
Mon Aug 23, 2021	Calendar Event Class - Chp. 1	11am to 1:15pm
	Calendar Event Class - Intro	11am to 1:15pm
Wed Aug 25, 2021	Calendar Event Class - Stats Things Part 1	11am to 1:15pm

Date	Details	Due
	Calendar Event Class - Stats Things Part 2	11am to 1:15pm
Thu Aug 26, 2021	Assignment A.1	due by 11:59pm
	Assignment Quest 1.1.	due by 11:59pm
Fri Aug 27, 2021	Assignment Who are You?!	due by 11:59pm
Mon Aug 30, 2021	Calendar Event Class - Stats Things Part 3	11am to 1:15pm
Tue Aug 31, 2021	Assignment A.2	due by 11:59pm
	Assignment A.3	due by 11:59pm
	Assignment Quest 1.3	due by 11:59pm
	Assignment Quest 1.2	due by 11:59pm
Wed Sep 1, 2021	Calendar Event <u>Class - Lab 1</u>	11am to 1:15pm
	Calendar Event <u>Class - Review</u>	11am to 1:15pm
Tue Sep 7, 2021	Assignment Lab Assignment 1	due by 11:59pm
	Assignment Quiz 1	due by 11:59pm
Wed Sep 8, 2021	Calendar Event Class	11am to 1:15pm
Tue Sep 14, 2021	Assignment A.4	due by 11:59pm
	Assignment Lab Assignment 2.1	due by 11:59pm

Date	Details	Due
	Assignment Quest 2.1	due by 11:59pm
	Assignment Quiz 1 Performance Reflection Participation Quiz	due by 11:59pm
Tue Sep 21, 2021	Assignment A.5	due by 11:59pm
	Assignment A.6	due by 11:59pm
	Assignment Quest 2.2	due by 11:59pm
	Assignment Quest 2.3	due by 11:59pm
Tue Sep 28, 2021	Assignment <u>Lab Assignment 2.2</u>	due by 11:59pm
	Assignment Quiz 2	due by 11:59pm
Tue Oct 5, 2021	Assignment A.7	due by 11:59pm
	Assignment Quest 3.1	due by 11:59pm
	Assignment Quiz 2 Performance Reflection Participation Quiz	due by 11:59pm
Tue Oct 19, 2021	Assignment A.8	due by 11:59pm
	Assignment A.9	due by 11:59pm
	Assignment <u>Lab Assignment 3.1</u>	due by 11:59pm
	Assignment Quest 3.2	due by 11:59pm
	Assignment Quest 3.3	due by 11:59pm

Date	Details	Due
	Assignment Quest 3.4	due by 11:59pm
Tue Oct 26, 2021	Assignment A.10	due by 11:59pm
	Assignment A.11	due by 11:59pm
	Assignment Quest 3.5	due by 11:59pm
	Assignment Quest 3.6	due by 11:59pm
Tue Nov 2, 2021	Assignment <u>Lab Assignment 3.2</u>	due by 11:59pm
	Assignment Quiz 3	due by 11:59pm
Tue Nov 9, 2021	Assignment A.12	due by 11:59pm
	Assignment A.13	due by 11:59pm
	Assignment Quest 4.1	due by 11:59pm
	Assignment Quest 4.2	due by 11:59pm
Tue Nov 16, 2021	Assignment A.14	due by 11:59pm
	Assignment A.15	due by 11:59pm
	Assignment Quest 4.3	due by 11:59pm
	Assignment Quest 4.4	due by 11:59pm
	Assignment Quest 4.5	due by 11:59pm

Date	Details	Due
Tue Nov 23, 2021	Assignment <u>Lab Assignment 4.1</u>	due by 11:59pm
	Assignment Quiz 4	due by 11:59pm
Tue Nov 30, 2021	Assignment A.16	due by 11:59pm
	Assignment A.17	due by 11:59pm
	Assignment Quest 5.1	due by 11:59pm
	Assignment Quest 5.2	due by 11:59pm
Thu Dec 2, 2021	Assignment Research Experience Article Review Quiz	due by 11:59pm
Tue Dec 7, 2021	Assignment A.18	due by 11:59pm
	Assignment End of Course Survey	due by 11:59pm
	Assignment Quest 5.3	due by 11:59pm
Thu Dec 9, 2021	Assignment <u>Lab Assignment 5</u>	due by 11:59pm
	Assignment Quiz 5	due by 11:59pm

Important University Dates

For important dates, see: https://www.tamuct.edu/registrar/academic-calendar.html

TECHNOLOGY REQUIREMENTS AND SUPPORT

Technology Requirements

This course will use the A&M-Central Texas Instructure Canvas learning management system. We strongly recommend the latest versions of Chrome or Firefox browsers. Canvas no longer

supports any version of Internet Explorer.

Logon to A&M-Central Texas Canvas [https://tamuct.instructure.com/] or access Canvas through the TAMUCT Online link in myCT [https://tamuct.onecampus.com/]. You will log in through our Microsoft portal.

Username: Your MyCT email address. Password: Your MyCT password

Canvas Support

Use the Canvas Help link, located at the bottom of the left-hand menu, for issues with Canvas. You can select "Chat with Canvas Support," submit a support request through "Report a Problem," or call the Canvas support line: 1-844-757-0953.

For issues related to course content and requirements, contact your instructor.

Online Proctored Testing

A&M-Central Texas uses Proctorio for online identity verification and proctored testing. This service is provided at no direct cost to students. If the course requires identity verification or proctored testing, the technology requirements are: Any computer meeting the minimum computing requirements, plus web camera, speaker, and microphone (or headset). Proctorio also requires the Chrome web browser with their custom plug in.

Other Technology Support

For log-in problems, students should contact Help Desk Central, 24 hours a day, 7 days a week

Email: helpdesk@tamu.edu Phone: (254) 519-5466

Web Chat: [http://hdc.tamu.edu]

Please let the support technician know you are an A&M-Central Texas student.

You will also need to utilize specialized software for statistical calculations. For the current course, we will be using SPSS or Jamovi. Using one of these software packages is required for this course, but purchasing one (for SPSS) for yourself is not required.

If you choose to download SPSS for yourself with a student discount, you need to make sure that you purchase the "Standard Grad Pack" (NOT THE "BASE grad pack") if you want the software to be able to complete all of the calculations required for this course. You may find a discounts for students at the websites listed on this page: http://www-03.ibm.com/software/products/en/spss-stats-gradpack

You can download Jamovi at http://ww.jamovi.org

UNIVERSITY RESOURCES, PROCEDURES, AND GUIDELINES

Drop Policy

If you discover that you need to drop this class, you must complete the <u>Drop Request</u> Dynamic Form through Warrior Web.

[https://dynamicforms.ngwebsolutions.com/casAuthentication.ashx?InstID=eaed95b9-f2be-45f3-a37d-

46928168bc10&targetUrl=https%3A%2F%2Fdynamicforms.ngwebsolutions.com%2FSubmit%2FForm%2FStart%2F53b8369e-0502-4f36-be43-f02a4202f612].

Faculty cannot drop students; this is always the responsibility of the student. The Registrar's Office will provide a deadline on the Academic Calendar for which the form must be completed. Once you submit the completed form to the Registrar's Office, you must go into Warrior Web and confirm that you are no longer enrolled. If you still show as enrolled, FOLLOW-UP with the Registrar's Office immediately. You are to attend class until the procedure is complete to avoid penalty for absence. Should you miss the drop deadline or fail to follow the procedure, you will receive an F in the course, which may affect your financial aid and/or VA educational benefits.

Academic Integrity

Texas A&M University-Central Texas values the integrity of the academic enterprise and strives for the highest standards of academic conduct. A&M-Central Texas expects its students, faculty, and staff to support the adherence to high standards of personal and scholarly conduct to preserve the honor and integrity of the creative community. Any deviation by students from this expectation may result in a failing grade for the assignment and potentially a failing grade for the course. All academic misconduct concerns will be referred to the Office of Student Conduct. When in doubt on collaboration, citation, or any issue, please contact your instructor before taking a course of action.

For more <u>information regarding the Student Conduct process</u>, [https://www.tamuct.edu/student-affairs/student-conduct.html].

If you know of potential honor violations by other students, you may <u>submit a report</u>, [https://cm.maxient.com/reportingform.php?TAMUCentralTexas&layout_id=0].

Academic Accommodations

At Texas A&M University-Central Texas, we value an inclusive learning environment where every student has an equal chance to succeed and has the right to a barrier-free education. The Office of Access and Inclusion is responsible for ensuring that students with a disability receive equal access to the university's programs, services and activities. If you believe you have a disability requiring reasonable accommodations, please contact the Office of Access and Inclusion, WH-212; or call (254) 501-5836. Any information you provide is private and confidential and will be treated as such.

For more information, please visit our <u>Access & Inclusion</u> Canvas page (log-in required) [https://tamuct.instructure.com/courses/717]

Important information for Pregnant and/or Parenting Students

Texas A&M University-Central Texas supports students who are pregnant and/or parenting. In accordance with requirements of Title IX and related guidance from US Department of Education's Office of Civil Rights, the Dean of Student Affairs' Office can assist students who are pregnant and/or parenting in seeking accommodations related to pregnancy and/or parenting. Students should seek out assistance as early in the pregnancy as possible. For more information, please visit Student Affairs [https://www.tamuct.edu/student-affairs/pregnant-and-parenting-students.html]. Students may also contact the institution's Title IX Coordinator. If you would like to read more about these requirements and guidelines online, please visit the website [http://www2.ed.gov/about/offices/list/ocr/docs/pregnancy.pdf].

Title IX of the Education Amendments Act of 1972 prohibits discrimination on the basis of sex and gender—including pregnancy, parenting, and all related conditions. A&M-Central Texas is able to provide flexible and individualized reasonable accommodation to pregnant and parenting students. All pregnant and parenting students should contact the Associate Dean in the Division of Student Affairs at (254) 501-5909 to seek out assistance. Students may also contact the University's Title IX Coordinator.

Tutoring

Tutoring is available to all A&M-Central Texas students, on a remote online basis. Visit the Academic Support Community in Canvas to view schedules and contact information. Subjects tutored on campus include Accounting, Advanced Math, Biology, Finance, Statistics, Mathematics, and Study Skills. Student success coaching is available online upon request.

If you have a question regarding tutor schedules, need to schedule a tutoring session, are interested in becoming a tutor, success coaching, or have any other question, contact Academic Support Programs at (254) 501-5836, visit the Office of Student Success at 212F Warrior Hall, or by emailing studentsuccess@tamuct.edu.

Chat live with a tutor 24/7 for almost any subject from on your computer! Tutor.com is an online tutoring platform that enables A&M-Central Texas students to log in and receive online tutoring support at no additional cost. This tool provides tutoring in over 40 subject areas except writing support. Access Tutor.com through Canvas.

University Writing Center

University Writing Center: Located in Warrior Hall 416, the University Writing Center (UWC) at Texas A&M University—Central Texas (A&M—Central Texas) is a free service open to all A&M—Central Texas students. For the Fall 2021 semester, the hours of operation are from 10:00 a.m.-5:00 p.m. Monday thru Thursday in Warrior Hall 416 (with online tutoring available every hour as well) with satellite hours available online only Monday thru Thursday from 6:00-9:00 p.m. and Saturday 12:00-3:00 p.m.

Tutors are prepared to help writers of all levels and abilities at any stage of the writing process. While tutors will not write, edit, or grade papers, they will assist students in developing more effective composing practices. By providing a practice audience for students' ideas and writing,

our tutors highlight the ways in which they read and interpret students' texts, offering guidance and support throughout the various stages of the writing process. In addition, students may work independently in the UWC by checking out a laptop that runs the Microsoft Office suite and connects to WIFI, or by consulting our resources on writing, including all of the relevant style guides. Whether you need help brainstorming ideas, organizing an essay, proofreading, understanding proper citation practices, or just want a quiet place to work, the UWC is here to help!

Students may arrange a one-to-one session with a trained and experienced writing tutor by making an appointment via WCOnline at https://tamuct.mywconline.com/. In addition, you can email Dr. Bruce Bowles Jr. at bruce.bowles@tamuct.edu if you have any questions about the UWC, need any assistance with scheduling, or would like to schedule a recurring appointment with your favorite tutor by making an appointment via WCOnline at https://tamuct.mywconline.com/. In addition, you can email Dr. Bruce Bowles Jr. at bruce.bowles@tamuct.edu if you have any questions about the UWC, need any assistance with scheduling, or would like to schedule a recurring appointment with your favorite tutor.

University Library

The University Library provides many services in support of research across campus and at a distance. We offer over 200 electronic databases containing approximately 400,000 eBooks and 82,000 journals, in addition to the 96,000 items in our print collection, which can be mailed to students who live more than 50 miles from campus. Research guides for each subject taught at A&M-Central Texas are available through our website to help students navigate these resources. On campus, the library offers technology including cameras, laptops, microphones, webcams, and digital sound recorders.

Research assistance from a librarian is also available 24 hours a day through our online chat service, and at the reference desk when the library is open. Research sessions can be scheduled for more comprehensive assistance, and may take place virtually through WebEx, Microsoft Teams or in-person at the library. Assistance may cover many topics, including how to find articles in peer-reviewed journals, how to cite resources, and how to piece together research for written assignments.

Our 27,000-square-foot facility on the A&M-Central Texas main campus includes student lounges, private study rooms, group work spaces, computer labs, family areas suitable for all ages, and many other features. Services such as interlibrary loan, TexShare, binding, and laminating are available. The library frequently offers workshops, tours, readings, and other events. For more information, please visit our <u>Library website</u> [http://tamuct.libguides.com/index].

OPTIONAL POLICY STATEMENTS

A Note about Sexual Violence at A&M-Central Texas

Sexual violence is a serious safety, social justice, and public health issue. The university offers

support for anyone struggling with these issues. University faculty are mandated reporters, so if someone discloses that they were sexually assaulted (or a victim of Domestic/Dating Violence or Stalking) while a student at TAMUCT, faculty members are required to inform the Title IX Office. If you want to discuss any of these issues confidentially, you can do so through Student Wellness and Counseling (254-501-5955) located on the second floor of Warrior Hall (207L).

Sexual violence can occur on our campus because predators often feel emboldened, and victims often feel silenced or shamed. It is incumbent on ALL of us to find ways to actively create environments that tell predators we don't agree with their behaviors and tell survivors we will support them. Your actions matter. Don't be a bystander; be an agent of change. For additional information on campus policy and resources visit the Title-IX webpage [https://www.tamuct.edu/compliance/titleix.html].

Behavioral Intervention

Texas A&M University-Central Texas cares about the safety, health, and well-being of its students, faculty, staff, and community. If you are aware of individuals for whom you have a concern, please make a referral to the Behavioral Intervention Team. Referring your concern shows you care. You can complete the referral online [https://cm.maxient.com/reportingform.php?TAMUCentralTexas&layout id=2].

Anonymous referrals are accepted. Please see the <u>Behavioral Intervention Team</u> website for more information [https://www.tamuct.edu/bit]. If a person's behavior poses an imminent threat to you or another, contact 911 or A&M-Central Texas University Police at 254-501-5800.