# Texas A&M University – Central Texas PSYC 3430-110: Statistics for the Behavioral Sciences Summer 2022

Fully Online Course

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#### Office Hours:

Due to this being an online course, office hours will be virtual this summer. We may hold meetings using <u>Webex software</u> or <u>Microsoft Teams</u> if desired by the students. To address student concerns individually, students are encouraged to contact the instructor via email, or to click on the link below to make an appointment for a virtual meeting using Microsoft Teams:

https://outlook.office365.com/owa/calendar/DrClarkAppointments@tamuct.onmicrosoft.com/bookings/s/H65aFhTq80KFZtOyakr2ag2.

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

SAFEZONE. SafeZone provides a public safety application that gives you the ability to call for help with the push of a button. It also provides Texas A&M University-Central Texas the ability to communicate emergency information quickly via push notifications, email, and text messages. All students automatically receive email and text messages via their myCT accounts.

Downloading SafeZone allows access to push notifications and enables you to connect directly for help through the app.

You can download SafeZone from the app store and use your myCT credentials to log in. If you would like more information, you can visit the <a href="SafeZone">SafeZone</a> website [www.safezoneapp.com].

To register SafeZone on your phone, please follow these 3 easy steps:

- 1. Download the SafeZone App from your phone store using the link below:
  - o <u>iPhone/iPad</u>: [https://apps.apple.com/app/safezone/id533054756]
  - Android Phone / Tablet
     [https://play.google.com/store/apps/details?id=com.criticalarc.safezoneapp]
- Launch the app and enter your myCT email address (e.g. {name}@tamuct.edu)

Complete your profile and accept the terms of service

#### **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.
- 1. 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.
- 1. 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.
- 1. 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* (6<sup>th</sup> 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:

Assignments (30%): 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 (<a href="https://www.youtube.com/watch?v="10nT2ZU6QQ">https://www.youtube.com/watch?v="10nT2ZU6QQ</a>) and be sure to use their <a href="university email">university email</a> 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 fill out this short form online **within 24 hours** of the time the assignment was due: <a href="https://forms.gle/JRGL7QJigbrY1Xsx9">https://forms.gle/JRGL7QJigbrY1Xsx9</a>. This form requires you to first identify yourself and the assignment. You may fill out the form for multiple assignments, but only if they are all due on the same day. Next, you will explain to 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 when you are planning to turn it in. Third, the form requires you to tell me how you plan on avoiding this problem in the future. 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 a grade of 70 for the effort.

#### **COURSE OUTLINE AND CALENDAR**

**Complete Course Calendar (See the Canvas version for any updates)** 

Date	Details	Due
Tue Jun 7, 2022	Assignment A.1	due by 11:59pm
	Assignment Quest 1.1.	due by 11:59pm
	Assignment Who are You?!	due by 11:59pm
Thu Jun 9, 2022	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
Tue Jun 14, 2022	Assignment	due by 11:59pm

# Lab Assignment 1

	Assignment Quiz 1	due by 11:59pm
Thu Jun 16, 2022	Assignment A.4	due by 11:59pm
	Assignment A.5	due by 11:59pm
	Assignment Quest 2.1	due by 11:59pm
	Assignment  Quiz 1 Performance  Reflection Participation  Quiz	due by 11:59pm
Tue Jun 21, 2022	Assignment A.6	due by 11:59pm
	Assignment Lab Assignment 2.1	due by 11:59pm

	Assignment Quest 2.2	due by 11:59pm
	Assignment Quest 2.3	due by 11:59pm
Thu Jun 23, 2022	Assignment Lab Assignment 2.2	due by 11:59pm
Thu 3 un 23, 2022	Assignment Quiz 2	due by 11:59pm
	Assignment A.7	due by 11:59pm
Tue Jun 28, 2022	Assignment A.8	due by 11:59pm
	Assignment Quest 3.1	due by 11:59pm
	Assignment Quest 3.2	due by 11:59pm

	Assignment Quest 3.3	due by 11:59pm
	Assignment  Quiz 2 Performance  Reflection Participation  Quiz	due by 11:59pm
Thu Jun 30, 2022	Assignment A.10	due by 11:59pm
	Assignment A.9	due by 11:59pm
	Assignment Quest 3.4	due by 11:59pm
	Assignment Quest 3.5	due by 11:59pm
Tue Jul 12, 2022	Assignment A.11	due by 11:59pm
	Assignment	due by 11:59pm

# Quest 3.6

Thu Jul 14, 2022	Assignment Lab Assignment 3.1	due by 11:59pm
	Assignment Quiz 3	due by 11:59pm
Tue Jul 19, 2022	Assignment A.12	due by 11:59pm
	Assignment Lab Assignment 3.2	due by 11:59pm
	Assignment Quest 4.1	due by 11:59pm
Thu Jul 21, 2022	Assignment A.13	due by 11:59pm
	Assignment Quest 4.2	due by 11:59pm

Tue Jul 26, 2022	Assignment A.14	due by 11:59pm
	Assignment Quest 4.3	due by 11:59pm
	Assignment Quest 4.4	due by 11:59pm
	Assignment A.15	due by 11:59pm
Thu Jul 28, 2022	Assignment A.16	due by 11:59pm
	Assignment Quest 4.5	due by 11:59pm
Tue Aug 2, 2022	Assignment Lab Assignment 4.1	due by 11:59pm
	Assignment Quiz 4	due by 11:59pm

Thu Aug 4, 2022	Assignment Quest 5.1	due by 11:59pm
	Assignment A.17	due by 11:59pm
Tue Aug 9, 2022	Assignment A.18	due by 11:59pm
	Assignment Quest 5.2	due by 11:59pm
	Assignment Quest 5.3	due by 11:59pm
	Assignment End of Course Survey	due by 11:59pm
Thu Aug 11, 2022	Assignment Lab Assignment 5	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

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 desire to use one of these software programs outside of the University, you will need a compatible computer of some kind. These software programs are not currently available on phones or tablets.

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

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: <a href="http://www-03.ibm.com/software/products/en/spss-stats-gradpack">http://www-03.ibm.com/software/products/en/spss-stats-gradpack</a>

#### **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: <a href="mailto:helpdesk@tamu.edu">helpdesk@tamu.edu</a> Phone: (254) 519-5466

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

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

#### 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-

46928168 bc 10 & target Url = https % 3A % 2F % 2F dynamic forms. ngwebsolutions. com % 2F Submit % 2F Form % 2F Start % 2F 53b 8369 e-0502-4f 36-be 43-f 02a 4202f 612].

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 <a href="Student Affairs">Student Affairs</a> [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 <a href="requirements and guidelines">requirements and guidelines</a> 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, both virtually and in-person. Student success coaching is available online upon request.

If you have a question, are interested in becoming a tutor, or in need of success coaching contact the Warrior Center for Student Success, Equity and Inclusion at (254) 501-5836, visit the Warrior Center at 212 Warrior Hall, or by emailing WarriorCenter@tamuct.edu.

To schedule tutoring sessions and view tutor availability, please visit <u>Tutor Matching Services</u> [https://tutormatchingservice.com/TAMUCT] or visit the Tutoring Center in 111 Warrior Hall.

Chat live with a remote 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 Spring 2022 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].

Teams or in-person at the library. <u>Schedule an appointment here</u> [https://tamuct.libcal.com/appointments/?g=6956]. 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.

#### **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 <a href="Ittle IX webpage"><u>Title IX webpage</u></a> [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 <a href="referral">referral</a> 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.