

PSYC 4435.130, CRN 80611, BEHAVIOR SCIENCE RESEARCH

Fall 2022

Tuesday & Thursday, 12:30 pm - 1:45 pm

Heritage Hall Room 308

Texas A&M University-Central Texas

INSTRUCTOR AND CONTACT INFORMATION

Instructor: Daniel A. Clark

Office: Warrior Hall 318 I

Phone: 254.519.5431

Email: Use Canvas inbox or Daniel-clark@tamuct.edu

Office Hours: [Click here for appointment link.](#)

In person:

Tuesday: 2 pm - 5 pm

Thursday: 2 pm - 5 pm

Online:

Monday, Wednesday, Friday: 8 am - 12 pm, 1pm - 4 pm

Mode of instruction and course access:

This course meets face-to-face with supplemental materials made available online. All assignments will be turned in online via the A&M-Central Texas Canvas Learning Management System [<https://tamuct.instructure.com>].

Student-instructor interaction:

The instructor will check email and canvas inbox as often as possible and will attempt to return messages within two business days. Students may make appointments with the instructor during office hours using the following link:

<https://outlook.office365.com/owa/calendar/DrClarkamp39sCalendar@tamuct.onmicrosoft.com/bookings/>

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 [SafeZone](http://www.safezoneapp.com) 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 [iPhone/iPad](https://apps.apple.com/app/safezone/id533054756): [https://apps.apple.com/app/safezone/id533054756]
 - o [Android Phone / Tablet](https://play.google.com/store/apps/details?id=com.criticalarc.safezoneapp) [https://play.google.com/store/apps/details?id=com.criticalarc.safezoneapp]
2. Launch the app and enter your myCT email address (e.g. {name}@tamuct.edu)
3. Complete your profile and accept the terms of service

For updates on COVID information, please monitor the University [website](https://www.tamuct.edu/covid19/) [https://www.tamuct.edu/covid19/]

COURSE INFORMATION

Course Overview and Description:

(WI) Study various research designs used in the behavioral sciences. Laboratory experiences will be required to acquaint the student with experimental procedures. Instruction will also be provided in writing research reports according to the APA manuscript style and SPSS statistical applications. Prerequisite(s): PSYC 3309 or ENGL 3309 and PSYC 3330 or equivalent.

Writing Intensive Course Designation:

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.

As a Writing Intensive course, a significant portion of the course grade is based on writing assignments. Many of these assignments will require that students submit multiple drafts of their work and revise it based on instructor feedback. Students will demonstrate their ability to present scientific and theoretical concepts in clear, precise language on the following assignments: Application Discussions, Research Project Topic, Project Article Review, Project Title Page & Introduction, Project Method & References, Project Abstract & Discussion, Project Analysis & Results, Project Final Version, Project Poster Presentation.

Student Learning Outcomes:

1. Demonstrate factual knowledge of basic research methodology including scientific method, theory, hypotheses, operational definitions, independent and dependent variables, research ethics, sampling, validity, reliability, confounds, between-subjects and within-subjects designs, and counterbalancing.
2. Critically analyze research methodology, identify research design appropriate for the research project, utilize library and online resources to identify scholarly work on the research topic, and draw inferences from the results of the research.
3. Apply the materials and information gained from class to design and conduct a research study.
4. Successfully complete online training to protect human research participants and apply training by creating an IRB Protocol Form that is eligible for Exempt review.
5. Communicate research ideas by writing a complete APA style manuscript of a research project and creating a professional, conference-style presentation of research
6. Demonstrate specific skills needed by professionals in the field by using statistical computing software to perform statistical analyses and working collaboratively in groups on research assignments.

Required Reading and Textbook(s):

American Psychological Association. (2009). *Publication manual of the American psychological association* (6th ed.). Washington, DC: Author. (ISBN: 978-1-4338-0561-5)

Collaborative Institutional Training Initiative (2017). Human Subjects Research. [Training to Protect Human Subjects](https://www.citiprogram.org/) (https://www.citiprogram.org/). Additional information regarding the training is provided in class.

Gravetter, F. J., & Forzano, L. B. (2018). *Research methods for the behavioral sciences*. (6th ed.). Belmont, CA: Cengage. (ISBN-13: 9781337755016)

Gravetter, F. J., Wallnau, L. B., Forzano, L. B. (2018). *Essentials of statistics for the behavioral sciences* (9th ed.) Belmont, CA: Wadsworth OR comparable textbook from PSYC 3330

Electronic Resources:

IBM Statistical Package for the Social Sciences (SPSS) Standard GradPack v. ?? (Select the **STANDARD GradPack, not the BASE GradPack.**) This computing software is widely used to compute statistical analyses and is available for students to use on University computers free of charge. If students live far from the University or do not want to use the computer lab resources, students can [rent a subscription to SPSS](#) for their personal computers at home. Students can purchase a 6-month or 12-month lease for the program via one of many online vendors. See the IBM website for a description of the product and a list of vendors (<http://www-03.ibm.com/software/products/en/spss-stats-gradpack>).

Students in this course will also be allowed to use Jamovi, which is a free software that is

available for download at www.jamovi.org.

A student of this institution is not under any obligation to purchase a textbook from a university-affiliated bookstore. The same textbook may also be available from an independent retailer, including an online retailer (Sec. 51.9705).

COURSE REQUIREMENTS

Pass/fail Assignments

These assignments are required elements of the Institutional Review Board (IRB) process for conducting research with human subjects. These assignments are not graded, but students cannot complete the course without successfully completing these assignments:

1. Submission of research project scales/measurements and participant recruitment plans.
2. Successful completion of **CITI Training** with submission of the Certificate to the professor.
3. Submission of an accurate, complete **IRB Protocol Form** with Appendices that are ultimately approved by the IRB.
4. Submission of a working link to the complete and revised research project in Qualtrics.
5. Submission of an **IRB Completion Report**.

Project Parts (25% of Overall): These are important pieces of your project that you will complete.

- **Topic Choice** - You will turn in your topic of interest so that you may be placed in a group for your project
 - **Topic of Interest** - This will be a general topic that you will turn in to aid in creating groups for doing research.
 - **Topic of study** - This assignment will be specific to what you will be studying.
- **IRB Protocol**: A document submitted to receive approval for conducting research with humans.
- **Measurement Scales**: The intended scales and measurements to be used in the project.
- **CITI Training Certificate**: Required training needed to conduct research at TAMUCT.
- **Research Design**: The intended research design for your project.
- **Presentation**: Presenting your findings at the end of the semester.

Paper Sections (10%): These are the sections of your final report that will be turned in incrementally throughout the semester.

- **Title Page & Introduction**
- **Methods & References**
- **Abstract & Discussion**
- **Data Analysis & Results**

- Table or figure
- Presentation/Poster

Textbook Assignments (30% of Overall):

- **Readiness Assessment Tests (15%):** These brief quizzes will be completed online before we discuss the material in the classroom.
- **Module Quizzes (15%):** These will also be brief quizzes over important material from the textbook that will be taken in class.

Participation (10% of overall):

- Classroom participation:
- Group participation

Data Analysis Assignments (10% of Total):

- Experimental Between Subjects Data Analysis
- Experimental Within Subjects Data Analysis
- Experimental Factorial Data Analysis
- Correlational Data Analysis

Grading Criteria Rubric and Conversion

<u>Grade</u>	<u>University Definition</u>	<u>Percentage</u>
A	Excellent	90-100
B	Good	80-89
C	Fair	70-79
D	Passing	60-69
F	Failing	59 or below

INSTRUCTOR 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 form \(link is also available in Canvas\)](#) within 24 hours of the due date that includes four questions. First, it will ask about the specific assignment(s). You may fill out the form for more than one assignment, as long as the assignments are due on the same day.

Second, it asks about what prevented you from turning it in on time. You do not have to be super specific, just give me something to help me understand the situation. Third, the form asks for how you

plan on avoiding the problem from question one in the future. Finally, the form asks for your specific plan for getting it turned in, including the date I should expect it to be completed. If you have answered these questions satisfactorily, I may reduce or remove the late penalty for your grade.

Participation Policy. During the semester, a record of participation will be kept on Canvas and available to be viewed by the students. If students miss class during the semester for University excused reasons, they are invited to fill out the “Missed Class” quiz on Canvas as a way to communicate both the reasons for the absence (if any) and the documentation of those reasons. The instructor will determine which absences may be excused based on the quiz responses.

Posting of Grades

Grades will be posted as soon as possible after assignment completion.

- RAT and Quiz grades will be posted the day that these quizzes are completed.
- Project assignments will require more time to be graded. The instructor will make every effort to grade these assignments quickly.

Principles of Research in Behavioral Science - Tentative Schedule -

Date	Topic
8/23	Introduction/Ways to Know - Chp. 1A
	Scientific Method - Chp.1B
8/30	Research Ideas and Hypotheses
	Ethics in Research
9/6	Defining and Measuring Variables
	Selecting Research Participants
9/13	Module Quiz 1
	Research Designs & Validity
9/20	Experimental Research Introduction
	Between Subjects Designs
9/27	Within Subjects, Quasi, & Non-experimental
	Factorial Designs
10/4	Correlational Designs
	Descriptive Research Designs

10/11	Module Quiz 2
	Research Designs on Qualtrics
10/18	Writing APA Reports Day 1
	Writing Reports Day 2
10/25	Methods Section
	Data Analysis: t-tests
11/1	Data Analysis: ANOVA
	Data Analysis: Correlations
11/8	Survey Feedback
	Presentation Example/Discussion Section
11/15	Online Class
	Collaboration Day
11/29	Presentation Day 1:
	Presentation Day 2:
12/6	Presentation Day 3:

Assignment Due Dates:

Date	Details	Due
	Assignment PRBS.RAT.1	due by 11:59pm
Wed Aug 24, 2022		
	Assignment PRBS.RAT2	due by 11:59pm

Mon Aug 29, 2022	Assignment Topic of Interest	due by 11:59pm
Wed Aug 31, 2022	Assignment PRBS.RAT.4	due by 11:59pm
Mon Sep 5, 2022	Assignment PRBS.RAT.3	due by 11:59pm
	Assignment Topic of Study	due by 11:59pm
Wed Sep 7, 2022	Assignment CITI Training Certificate	due by 11:59pm
	Assignment PRBS.RAT.5	due by 11:59pm
Tue Sep 13, 2022	Assignment Module Quiz 1	due by 11:59pm
Wed Sep 14, 2022	Assignment PRBS.RAT.6	due by 11:59pm
Mon Sep 19, 2022	Assignment PRBS.RAT.7	due by 11:59pm

Wed Sep 21, 2022	Assignment PRBS.RAT.8	due by 11:59pm
	Assignment IRB Protocol Part One	due by 11:59pm
	Assignment PRBS.RAT.10	due by 11:59pm
Mon Sep 26, 2022	Assignment PRBS.RAT.9	due by 11:59pm
	Assignment PRBS.Research Design	due by 11:59pm
Wed Sep 28, 2022	Assignment PRBS.RAT.11	due by 11:59pm
Mon Oct 3, 2022	Assignment PRBS.RAT.12	due by 11:59pm
Wed Oct 5, 2022	Assignment PRBS.RAT.13	due by 11:59pm
Thu Oct 6, 2022	Assignment Measurement Scales	due by 11:59pm

Tue Oct 11, 2022	Assignment Module Quiz 2	due by 11:59pm
Mon Oct 24, 2022	Assignment Title Page & Literature Review	due by 11:59pm
	Assignment Methods & References	due by 11:59pm
Mon Oct 31, 2022	Assignment PRBS. Within-Subjects Data Analysis	due by 11:59pm
	Assignment PRBS. Between Subjects Data Analysis 1	due by 11:59pm
Mon Nov 7, 2022	Assignment PRBS. Between Subjects Data Analysis 2	due by 11:59pm
Wed Nov 9, 2022	Assignment PRBS Data Analysis Correlation 1	due by 11:59pm
Wed Nov 16, 2022	Assignment Project Data Analysis & Results	due by 11:59pm

Wed Nov 30, 2022	Assignment Abstract & Discussion	due by 11:59pm
Mon Dec 5, 2022	Assignment Final Paper	due by 11:59pm
Thu Dec 8, 2022	Assignment Presentation	due by 11:59pm

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): [<http://hdc.tamu.edu>]

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

UNIVERSITY RESOURCES, PROCEDURES, AND GUIDELINES

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 Warrior Center for Student Success, Equity 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 [Access & Inclusion](https://tamuct.instructure.com/courses/717) Canvas page (log-in required) [<https://tamuct.instructure.com/courses/717>]

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 [information regarding the student conduct process](https://www.tamuct.edu/student-affairs/student-conduct.html), [<https://www.tamuct.edu/student-affairs/student-conduct.html>].

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

Drop Policy

If you discover that you need to drop this class, you must complete the [Drop Request](#) Dynamic Form through Warrior Web.

[<https://federation.ngwebsolutions.com/sp/startSSO.ping?PartnerIdId=https://eis-prod.ec.tamuct.edu:443/samlso&SpSessionAuthnAdapterId=tamuctDF&TargetResource=https%3a%2f%2fdynamicforms.ngwebsolutions.com%2fSubmit%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.

Important information for Pregnant and/or Parenting Students

Texas A&M University-Central Texas supports students who are pregnant, experiencing pregnancy-related conditions, 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) [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](http://www2.ed.gov/about/offices/list/ocr/docs/pregnancy.pdf) 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 [Tutor Matching Services](https://tutormatchingservice.com/TAMUCT) [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 Library & Archives

The University Library & Archives 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. [Schedule an appointment here](#)

[<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.

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 [Library website](#) [<http://tamuct.libguides.com/index>]

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. 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 [WCOOnline](#) [<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.

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) [<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 [Behavioral Intervention Team](#) 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 254-501-5805.
