

## Texas A&M University - Central Texas

### PSYC 5316-110

## Advanced Quantitative Methods & Experimental Design

### INSTRUCTOR AND CONTACT INFORMATION

**Instructor:** Daniel A. Clark, Ph.D.

**Office:** Warrior Hall Room 318 I

**Email:** Preferred email communication is through e-mail: [daniel-clark@tamuct.edu](mailto:daniel-clark@tamuct.edu)

**Office Hours:**

**Monday:** 1:30 pm - 5 pm

**Tuesday:** 1:30 pm - 4 pm

**Wednesday:** 1:30 pm - 4 pm

**Thursday:** 1:30 pm - 4 pm

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

#### **Mode of Instruction and Course Access:**

This course is a 100% online course and uses TAMUCT's Canvas system (<https://www.tamuct.instructure.com>). Students will use their Canvas username and password (communicated separately) to logon to this system.

#### **Student-Instructor Interaction:**

The professor will logon to the course in Canvas every week day (Monday through Friday) and will reply to email within two business days.

If students have a course-related question, these should be posted in Study Hall (discussion board) instead of sending the professor an email/message. When posted in Study Hall, both classmates and the professor are able to reply to questions, and all students will have access to the information.

Students are expected to logon to the course in Canvas daily to review and post assignments, read discussion boards, review announcements, check messages, etc. The professor will provide feedback on assignments by marking grading rubrics and/or posting comments as needed in the Submission box or on attached documents. Students should review all assignments in the Grade Center when grades are posted to examine and

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apply the feedback on subsequent assignments.

Students can message the professor to schedule an appointment to talk via Collaborate when needed.

## **COURSE INFORMATION**

### **Course Overview and Description:**

This course provides an overview of advanced statistical techniques to analyze quantitative data resulting from experimental and quasi-experimental research designs. This course is a continuation of PSYK 500 and PSYK 501 and requires students to demonstrate proficiency in the use of SPSS for data analysis. The course reviews One-Way and Two-Factor ANOVA. Other topics include ANCOVA, MANOVA, MANCOVA, multiple regression, logistic regression, data reduction techniques (factor analysis and principal components analysis), and non-parametric analyses appropriate for two- and multi-group designs. The course emphasizes the integration of multivariate and advanced statistical design with applicable research paradigms. Prerequisite(s): PSYK 500 and PSYK 501.

### **Course Objective (Student Learning Outcomes):**

1. *Demonstrate comprehension and application of factual knowledge (terminology, classifications, methods, trends).* Students will compute one-way and two-factor analysis of variance, analysis of covariance, multiple analysis of variance, multiple analysis of covariance, multiple regression, logistic regression, data reduction techniques (factor analysis and principal components analysis), and non-parametric analyses appropriate for two- and multi-group designs. Students will demonstrate their ability to compute functions on homework assignments and exams.
2. *Demonstrate comprehension and application of factual knowledge of fundamental principles, generalizations, or theories regarding basic statistics.* Students will read, discuss, and write about theoretical concepts underlying inferential statistics, including empirical distributions, theoretical distributions (including the normal distribution), sampling distributions, the Central Limit Theorem, and the logic underlying confidence intervals and hypothesis testing. Students will demonstrate their ability to discuss and write about selected concepts on the Concept Application Discussions.
3. *Integrate course material to improve thinking, problem solving, and decisions.* Students will identify the variables under study including independent and dependent variables, state the research hypotheses, identify the number of samples under study and scores per participant, select the appropriate inferential tests, draw statistical conclusions from the numerical results of analyses, and present them in APA style. Examples and problems will be applied to research in psychology. Students will demonstrate these skills on Homework Problems, SPSS assignments, APA style Results sections, Research Article Analyses, and Exams.
4. *Analyze and critically evaluate ideas, arguments, and points of view.* Students will respond to others' writing (including that of peers and experts in the field) on statistical concepts and substantiate their comments with course materials. Students will state null and alternative

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research hypotheses that are supported by information provided for research scenarios. Students will demonstrate their ability to critically evaluate ideas on the Concept Application Discussion replies (weekly) and Research Article Analyses.

5. *Demonstrate skill in expressing oneself in writing.* Using appropriate APA style, students will write Concept Application Discussions each week with replies, Research Article Analyses, and APA style Results sections.

**Required Materials:**

**Required Texts:**

Harlow, L. (2014). *The essence of multivariate thinking*, (2nd ed.). New York, NY: Routledge

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.

**Required Software:**

For this class, access to SPSS will be required. You are welcome to use the software in the campus computer labs, or you can purchase your own software at: <https://www.onthehub.com/spss/>

**If you choose to purchase your own software, there are many different versions of SPSS available. Although it is slightly more expensive, please choose at least the “Standard GradPack” because the lower priced options are not capable of completing the analyses needed for this course.**

**Starting around week 11, we will be using a software called LISREL. A free student version of this software is available for Windows computers at: <http://www.ssicentral.com/lisrel/student.html>**

## COURSE REQUIREMENTS

### Course Sequence of Instruction:

When first logging on to Canvas, students should go to the “assignments” tab. All of the important work will either be linked or directly posted to the modules posted there.

### Course Requirements:

Students are responsible for meeting the course requirements as scheduled for each module in the course calendar. **Assignments may not be submitted for credit after the due date** (i.e., late work policy; makeup work policy).

All assignments must be written in students own words. No credit will be awarded for quoted or plagiarized material on any assignment. **Writing assignments may be screened through plagiarism detection tools (e.g., TurnItIn) before a grade will be assigned.**

**Weekly Discussions and Replies** - These will be discussions that we will have on the forums concerning different statistical techniques.

**Participation Quizzes (PQ)** - After watching an instructional video, students will answer a few questions to confirm that it has been viewed.

**Data Analysis Assignments (DA)** - Students will be given data to analyze and answer short answer or multiple choice questions concerning your analysis results. These assignments will require SPSS or LISREL.

**Research Application Assignments** - In these assignments, you will be finding a research article from a psychology peer-reviewed article that uses the analysis that we are studying during that particular unit. Once you enter the assignment, you will be uploading a pdf on Canvas. After the upload, you will answer a series of open ended questions about the analysis that was done for the article. The idea for these assignments is for you to get to see how these analyses are used in the real research world!

### Exams

### Grading Criteria Rubric and Conversion:

### Posting of Grades:

**Grading Scale:** Grades are not ‘given’ in this course; they are earned. Students earn grades by actively reading material, by participating in course discussion, and by applying subject-matter content on written assignments. Grades are determined based on the percentage of points earned

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on each assignment and the assignment's weight toward the overall course grade.

<u>Grade</u>	<u>University Definition</u>	<u>Percentage</u>
A	Excellent	90-100
B	Good	80-89
C	Fair	70-79
D	Not Passing for Graduate Courses	60-69
F	Failing	59 or below

**Grade Posting:** All students' grades will be posted in the Canvas grade book after the assignment due date has passed. On the writing assignments, the professor will begin reading, grading and recording grades on the day they are due and will have all grades posted by the following Monday. Students should regularly monitor their grades in the Canvas grade book, and *students should not hesitate to ask the professor about any grade or concern.*

## **TECHNOLOGY REQUIREMENTS AND SUPPORT**

### **Technology Requirements**

*This course will use the A&M-Central Texas Instructure Canvas learning management system.*

*Logon to A&M-Central Texas Canvas [<https://tamuct.instructure.com>].*

*Username: Your MyCT username (xx123 or everything before the "@" in your MyCT e-mail 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.*

### **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](mailto: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.*

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## **UNIVERSITY RESOURCES, PROCEDURES, AND GUIDELINES**

### **Drop Policy.**

If you discover that you need to drop this class, you must complete a [Drop Request Form](https://www.tamuct.edu/registrar/docs/Drop_Request_Form.pdf) [https://www.tamuct.edu/registrar/docs/Drop\_Request\_Form.pdf].

*Professors 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, signed and returned. Once you return the signed 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. Academic integrity is defined as a commitment to honesty, trust, fairness, respect, and responsibility. Any deviation by students from this expectation may result in a failing grade for the assignment and potentially a failing grade for the course. Academic misconduct is any act that improperly affects a true and honest evaluation of a student's academic performance and includes, but is not limited to, cheating on an examination or other academic work, plagiarism and improper citation of sources, using another student's work, collusion, and the abuse of resource materials. All academic misconduct concerns will be reported to the university's Office of Student Conduct. Ignorance of the university's standards and expectations is never an excuse to act with a lack of integrity. When in doubt on collaboration, citation, or any issue, please contact your instructor before taking a course of action.*

### **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 Department 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 Department of Access and Inclusion at (254) 501-5831. Any information you provide is private and confidential and will be treated as such.*

For more information please visit our [Access & Inclusion](https://www.tamuct.edu/student-affairs/access-inclusion.html) webpage [https://www.tamuct.edu/student-affairs/access-inclusion.html].

*Texas A&M University-Central Texas supports students who are pregnant and/or parenting. In accordance with requirements of Title IX and guidance from US Department of Education's Office of Civil*

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*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. For more information, please visit <https://www.tamuct.departments/index.php>. 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 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 on-campus and online. On-campus subjects tutored include Accounting, Advanced Math, Biology, Finance, Statistics, Mathematics, and Study Skills. Tutors are available at the Tutoring Center in Warrior Hall, Suite 111.*

*If you have a question regarding tutor schedules, need to schedule a tutoring session, are interested in becoming a tutor, or any other question, contact Academic Support Programs at 254-519-5796, or by emailing Dr. DeEadra Albert-Green at [deadra.albertgreen@tamuct.edu](mailto:deadra.albertgreen@tamuct.edu).*

*Chat live with a tutor 24/7 for almost any subject on your computer! Tutor.com is an online tutoring platform that enables A&M-Central Texas students to log-in and receive FREE online tutoring and writing support. This tool provides tutoring in over forty subject areas. Access Tutor.com through Canvas.*

**University Writing Center:** *Located in 416 Warrior Hall, the University Writing Center (UWC) at Texas A&M University-Central Texas is a free workspace open to all TAMUCT students from 10am-5pm Monday-Thursday with satellite hours in the University Library Monday-Thursday from 6:00-9:00pm. Students may arrange a one-on-one session with a trained and experienced writing tutor by visiting the UWC during normal operating hours (both half-hour and hour sessions are available) or by making an appointment via [WOnline](https://tamuct.mywconline.com/) at [<https://tamuct.mywconline.com/>]. In addition, you can email Dr. Bruce Bowles Jr. at [bruce.bowles@tamuct.edu](mailto:bruce.bowles@tamuct.edu) to schedule an online tutoring session. 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 University Writing Center is here to help!*

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*If you have any questions about the University Writing Center, please do not hesitate to contact Dr. Bruce Bowles Jr. at [bruce.bowles@tamuct.edu](mailto:bruce.bowles@tamuct.edu).*

### **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 250,000 eBooks and 82,000 journals, in addition to the 72,000 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 twenty-four 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 on Skype 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 [Library website](https://tamuct.libguides.com/) [<https://tamuct.libguides.com/>].*

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### **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 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/departments/compliance/titleix.php) [<https://www.tamuct.edu/departments/compliance/titleix.php>].*

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



**PSYC 5316: COURSE OUTLINE AND CALENDAR**

<b><u>Week</u></b>	<b><u>Module</u></b>	<b><u>Instructional Activities</u></b>	<b><u>Assignments Due</u></b>
1	Module 1: Background Information	Read Introduce yourself in forum Answer Discussion Questions	Introduce yourself DQ.1
2-3	Module 2/3: Multiple Regression Hierarchical Multiple Regression	Read Chapter 3	PQ.1-7 DA.1 App.1
4	Module 4: Analysis of Covariance	Read Chapter 4	PQs DA App
5	Module 5: Multivariate Analysis of Variance	Read Chapter 5	PQs DA App
6	Module 6: Logistic Regression	Read Chapter 6	PQs DA App
7	Module 7: Factor Analysis	Read Chapter 9	PQs DA App
8	Module 8A: Multilevel Modeling	Read Chapter 8 Write Application Discussion	PQs
9	Module 8B: Multilevel Modeling	Read Chapter 8 Write Application Discussion	PQs DA App
10	Module 9: Structural Equation Modeling Overview	Read Chapter 9 Write Application Discussion	PQs
11/12	Module 10: Path Analysis	Read Chapter 10	PQs DA App
13/14	Module 11: Confirmatory Factor Analysis	Read Chapter 12	PQs DA App
15/16	Module 12: Latent Variable Modeling	Read Chapter 13	PQs DA App
16	Final Exam Week		

The professor reserves the right to amend this syllabus at any time. If revisions are necessary, the professor will provide as much advanced notice as possible.

## **COURSE AND UNIVERSITY PROCEDURES AND POLICIES**

### **Drop Policy:**

If you discover that you need to drop this class, you must go to the Records Office and ask for the necessary paperwork. Professors **cannot** drop students; this is always the responsibility of the student. The record's office will provide a deadline for which the form must be returned, completed and signed. Once you return the signed form to the records office and wait 24 hours, you must go into Warrior Web and confirm that you are no longer enrolled. Should you still be enrolled, FOLLOW-UP with the records office immediately? You are to attend class until the procedure is complete to avoid penalty for absence. Should you miss the deadline or fail to follow the procedure, you will receive an F in the course.

### **Academic Integrity:**

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### **Disability Support and Access Services:**

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 an education that is barrier-free. The Office of Disability Support and Access is responsible for ensuring that students with a disability enjoy equal access to the University's programs, services and activities. Some aspects of this course or the way the course is taught may present barriers to learning due to a disability. If you feel this is the case, please contact Disability Support and Access at (254) 501-5831 in Warrior Hall, Ste. 212. For more information, please visit their website at [www.tamuct/disabilitysupport](http://www.tamuct/disabilitysupport). Any information you provide is private and confidential and will be treated as such.

### **Tutoring:**

Tutoring is available to all TAMUCT students, both on-campus and online. Subjects tutored include Accounting, Finance, Statistics, Mathematics, and Writing (APA). Tutors are available at the Tutoring Center in Warrior Hall, Suite 111. Visit [www.tamuct.edu/AcademicSupport](http://www.tamuct.edu/AcademicSupport) and click "Tutoring Support" for tutor schedules and contact information. If you have questions, need to schedule a tutoring session, or if you are interested in becoming a tutor, contact Academic Support Programs at 254-501-5836 or by emailing [c.garza@tamuct.edu](mailto:c.garza@tamuct.edu)

Chat live with a tutor 24/7 for almost any subject on your computer! Tutor.com is an online

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tutoring platform that enables TAMUCT students to log-in and receive FREE online tutoring and writing support. This tool provides tutoring in Mathematics, Writing, Career Writing, Chemistry, Physics, Biology, Spanish, Calculus, and Statistics. To access Tutor.com, click on <http://www.tamuct.edu/departments/academicsupport/tutoring.php>.

### **University Library:**

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Research assistance from a librarian is also available twenty-four 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 on Skype 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.

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**University Writing Center.** The University Writing Center at Texas A&M University-Central Texas is a free workspace open to all TAMUCT students. The UWC is located in **416 Warrior Hall**. The center is open **11am-6pm Monday-Thursday during the spring** semester. Students may work independently in the UWC by checking out a laptop that runs Microsoft Office suite and connects to WIFI, or by consulting our resources on writing, including all of the relevant style guides. Students may also arrange a one-on-one session with a trained and experienced writing tutor. Tutorials can be arranged by visiting the UWC. Tutors are prepared to help writers of all levels and abilities at any stage of the writing process. Sessions typically last between 20-30 minutes. While tutors will not write, edit, or grade papers, they will help students develop more effective invention and revision strategies.

### **Recommended Academic Strategies:**

1. Students should schedule a *minimum* of **9 hours each week for the next 16 weeks to devote to this course**. According to the federal definition of a credit hour, students should spend “not less than one hour of classroom or direct faculty instruction and a minimum of two hours out of class...for one semester hour of credit” (<http://www.sacscoc.org/subchg/policy/CreditHours.pdf>). **Because this is a 3-credit hour class that is delivered fully online, students should spend at least 9 hours on coursework per week. Because this is an 8 week class instead of a 16 week class, the**

- time per week doubles to 18 hours per week in 8 weeks.** Bear in mind that this guideline is for an average class. Some students may find this course challenging and may require *significantly more time* to grasp the concepts and complete the assignments. Plan accordingly.
2. Research indicates that spaced practice is better than massed practice when learning new information. Thus, spending 2 (3) hours a day for 5 (6) days a week on coursework is better for your learning and your grade than ‘pulling an all-nighter.’ Adjust your schedule accordingly.
  3. Be professional and use proper netiquette (i.e., internet etiquette) in all course correspondence. Your college education is grooming you for a professional career so practice these skills now.
    - a. Use standard English in all of your communications. Do not abbreviate or use texting shortcuts (e.g., OMG! R U kidding. ROFL!). Spell check, revise, and edit your messages before sending them. Use proper punctuation and capitalization.
    - b. Be polite and respectful of others. Do not use all UPPERCASE LETTERS, which is equivalent to shouting. Avoid sarcasm and irony because they are easily misinterpreted by the reader. Do not ‘flame’ others by sending negative or hurtful comments; though the reader cannot see you, you are not anonymous.
    - c. Remember that you are individually accountable for all your messages and online actions. Treat all of your interactions with others in class as you would in your future professional career.
  4. **Provide additional recommendations here for students to be successful in the course**

### **The Operation of the Online Course:**

**Copyright Notice:** All materials used in this class are copyrighted either by the instructor or other authors and creators. Copyright laws and fair use policies protect the rights of those who created these materials. These laws and policies protect student work as well. Just as students cannot use copyrighted material without permission, others cannot use students’ work without permission. All students should familiarize themselves and follow copyright and fair use requirements. Students are individually and solely responsible for violations of copyright and fair use laws. Violations of copyright laws could subject students to federal and state civil penalties and criminal liability as well as disciplinary action under University standard academic procedures.

**Course Calendar:** Carefully examine the Course Calendar. Note that each Module will be available to students for **10 days with the exception of Module 1, which opens on the first day of the semester.** Each Module (except Module 1) opens on a **Friday at 12:30am**, and all Module assignments are due **10 days later on Monday morning by 8:00am (except for initial Application Discussion posts).** Students should have all assignments submitted for each Module well before the deadline. ***No assignments will be accepted after the deadline (late work policy, missed assignment).***