



PSY 305-01E, Stats and Research Design II

COURSE SYLLABUS: Spring 2025

INSTRUCTOR INFORMATION

Instructor: Jessica Udry, Ph.D.

Office Location: Henderson 201-A

Office Hours: Tuesday and Thursday 9:30-10:45; 12:30-1:45

Office Phone: n/a

Office Fax: n/a

University Email Address: jessica.udry@tamuc.edu

Preferred Form of Communication: Email

Communication Response Time: Within one business day.

COURSE INFORMATION

Materials – Textbooks, Readings, Supplementary Readings

Recommended Textbooks:

Nestor & Schutt, Research Methods in Psychology (3rd)

ISBN: 9781544323770

Howell, Fundamental Statistics for the behavioral sciences (9th)

ISBN: 9781305652972

If you already have these textbooks, you can use them for this class. If you do not already have these textbooks, here are two FREE open access alternatives. I will post readings for each set of books on D2L for every topic.

Research Methods in Psychology

<https://kpu.pressbooks.pub/psychmethods4e/>

Introduction to Statistics in the Psychological Sciences

<https://umsystem.pressbooks.pub/isps/>

The syllabus/schedule are subject to change.

Course Description

This course is the second part of a two-part series on statistics and research methods. This course is intended to introduce you to the basic and most common methods of collecting psychological data. We will cover t-tests, ANOVA, and correlations. Special attention will be given to writing in the style of the American Psychological Association (APA).

The lab allows for additional time to discuss the materials covered in lecture and to work on applying what you have learned in lecture through developing a research paper. This research paper will be a hypothetical replication study. This project is also broken up into two semesters. This semester you will write a results and discussion section. Each week in lab will involve working on a particular portion of your research paper or doing an activity involving SPSS (a statistical analysis program). All of this will culminate in an APA style research paper.

Student Learning Outcomes

1. Learning to review the primary literature (improving library research skills, increasing familiarity with scientific writing, and reading journal articles)
2. Learning how research ideas are developed, including the formulation of testable hypotheses
3. Analysis of research results, including a basic understanding of descriptive statistics, probability, and percentiles
4. Produce a quality APA style report

COURSE REQUIREMENTS

Minimal Technical Skills Needed

Using the learning management system (D2L), searching the Internet for texts, using Library resources.

Instructional Methods

This course is a face-to-face class. During our lecture, we will focus on deepening your understanding of the important concepts and theories through lectures, demonstrations, and class discussions. Prior to each week's lecture, you will be expected to complete the reading materials before the class. It is very important to attend every lecture. It will be difficult to do well in this course with significant absences.

Student Responsibilities or Tips for Success in the Course

- 1) . Check and read class emails promptly for announcements, updates, clarifications, etc.

The syllabus/schedule are subject to change.

- 2) Take notes as you listen to lectures, read the assigned parts of the textbook to check if your listening comprehension matches with the textbook descriptions, and fill in the missing pieces.
- 3) Quiz yourself often. Can you define a concept in your own words? Can you answer 3 or 4 questions of the textbook practice questions correctly?
- 4) Review the materials on a regular basis.
- 5) Complete assigned coursework on time.
- 6) Please contact me when you have questions. The material is difficult, and no one learns everything perfectly the first time through. This class, and your time, is too important for you to spend time getting frustrated instead of learning

GRADING

Final grades in this course will be based on the following scale:

- A = 90%-100%
- B = 80%-89%
- C = 70%-79%
- D = 60%-69%
- F = 59% or Below

Assessments

Your final grade is weighted 80% lecture and 20% lab. However, to receive a C or better in the course, students MUST receive a grade of C or better in BOTH the lecture and lab sections. Students who receive less than a C in either the lecture or lab will receive either an automatic D in the course, or their earned course grade if lower than D.

The lab and lecture grades are further broken up into separate assignment. The contribution of each assignment to the corresponding category (lecture or lab) appears next to each item.

Lecture

Exams: 30%

There are three exams in the course. Each exam is worth 10% of your grade. Makeup exams should be scheduled as soon as possible. Preferably, this is before you miss the exam. In case of emergency, you must reach out to me to schedule a makeup within 24 hours of the missed exam. **Failure to do so may prohibit you from taking the exam.**

Final exam: 20%

There will be a cumulative final at the end of the semester covering all the material discussed throughout the course.

The syllabus/schedule are subject to change.

Quizzes: 10%

For every topic we cover, there will be a 10-question quiz on D2L. The purpose of these quizzes is to give you practice with the material. As the goal of these is to promote learning, you may attempt these quizzes up to 3 times. Only your highest attempt will count. Two quizzes will be dropped at the end of the semester.

Homework: 30%

There will be four SPSS activities turned in for a grade. These assignments are weighted equally and are designed to increase your understanding of how to interpret SPSS output and use that output to write an APA style results section. **Due dates for homework assignments are listed below on the schedule of topics.**

Exit tickets: 10%

During most classes, there will be an exit ticket for you to turn in at the end of class. The purpose of these are to give me an idea of where you may still have confusion on the material for the day. You must be present in class to receive credit for these. Three of these will be dropped at the end of the semester.

Lab

LA1: Graphs (15%) – For the graphing activity, students will submit their APA format graphs. These will be graded for accuracy.

LA2: Results Section (30%) – Students will submit the results section for their paper. These will be graded for accuracy.

LA3: Discussion Outline (15%) – Students will submit an outline for their discussion section. This assignment is graded pass/fail.

LA4: Final Paper (40%) – Students will submit their results and discussion sections, references, and all sections from their 302 paper. Any recommended edits to the previous sections should appear in this version.

TECHNOLOGY REQUIREMENTS

LMS

All course sections offered by East Texas A&M have a corresponding course shell in the myLeo Online Learning Management System (LMS). Below are technical requirements

LMS Requirements:

<https://community.brightspace.com/s/article/Brightspace-Platform-Requirements>

LMS Browser Support:

The syllabus/schedule are subject to change.

https://documentation.brightspace.com/EN/brightspace/requirements/all/browser_support.htm

Zoom Video Conferencing Tool

https://inside.tamuc.edu/campuslife/CampusServices/CITESupportCenter/Zoom_Account.aspx?source=universalmenu

ACCESS AND NAVIGATION

You will need your campus-wide ID (CWID) and password to log into the course. If you do not know your CWID or have forgotten your password, contact the Center for IT Excellence (CITE) at 903.468.6000 or helpdesk@tamuc.edu.

Note: Personal computer and internet connection problems do not excuse the requirement to complete all course work in a timely and satisfactory manner. Each student needs to have a backup method to deal with these inevitable problems. These methods might include the availability of a backup PC at home or work, the temporary use of a computer at a friend's home, the local library, office service companies, Starbucks, a East Texas A&M campus open computer lab, etc.

Technical Support

If you are having technical difficulty with any part of Brightspace, please contact Brightspace Technical Support at 1-877-325-7778. Other support options can be found here:

<https://community.brightspace.com/support/s/contactsupport>

COMMUNICATION AND SUPPORT

If you have any questions or are having difficulties with the course material, please contact your Instructor.

Interaction with Instructor Statement

Typically, I will respond to your emails within one business day. I can also schedule a meeting with you via Zoom. Please do not hesitate to contact me if you have any questions.

The syllabus/schedule are subject to change.

COURSE AND UNIVERSITY PROCEDURES/POLICIES

Course Specific Procedures/Policies

Syllabus Change Policy

The syllabus is a guide. Circumstances and events, such as student progress, may make it necessary for the instructor to modify the syllabus during the semester. Any changes made to the syllabus will be announced in advance.

Technology Policy

Cell phones are NOT permitted in class. Please place your phone in your pocket or bag on silent for the duration of class. If you are expecting an urgent call, please let me know before class. While laptops are permitted in class, laptops can be distracting to other students who are trying to pay attention. To be respectful of other students, if you choose to use a laptop to take notes, please sit towards the back of the room. If your laptop usage becomes distracting to other students, I reserve the right to revoke your laptop privileges.

University Specific Procedures

Student Conduct

All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment. The Code of Student Conduct can be found at <https://www.tamuc.edu/student-code-of-conduct/>.

If you believe someone has engaged in behaviors that do not align with the Code of Student Conduct or you have other concerns, please visit the File a Report page at <https://www.tamuc.edu/office-of-student-rights-and-responsibilities/concerns-incident-reporting/>

Students should also consult the Rules of Netiquette for more information regarding how to interact with students in an online forum:
<https://www.britannica.com/topic/netiquette>

Academic Integrity

Students at East Texas A&M are expected to maintain high standards of integrity and honesty in all of their scholastic work. For more details and the definition of academic dishonesty see the following procedures:

Undergraduate student academic dishonesty policy
[Undergraduate Academic Dishonesty 13.99.99.R0.03](#)

Undergraduate student academic dishonesty policy

The syllabus/schedule are subject to change.

[Undergraduate Student Academic Dishonesty Form](#)

Graduate student academic dishonesty policy:

<https://inside.tamuc.edu/aboutus/policiesproceduresstandardsstatements/rulesProcedures/13students/graduate/13.99.99.R0.10.pdf>

Graduate student academic dishonesty form:

<https://inside.tamuc.edu/academics/graduateSchool/faculty/GraduateStudentAcademicDishonestyForm.pdf>

East Texas A&M Attendance

For more information about the attendance policy please visit the [Attendance](#) webpage.

Artificial Intelligence

East Texas A&M acknowledges that there are legitimate uses of Artificial Intelligence, Chatbots, or other software that has the capacity to generate text, or suggest replacements for text beyond individual words, as determined by the instructor of the course.

Any use of such software must be documented. Any undocumented use of such software constitutes an instance of academic dishonesty (plagiarism).

Individual instructors may disallow entirely the use of such software for individual assignments or for the entire course. Students should be aware of such requirements and follow their instructors' guidelines. If no instructions are provided the student should assume that the use of such software is disallowed.

In any case, students are fully responsible for the content of any assignment they submit, regardless of whether they used an AI, in any way. This specifically includes cases in which the AI plagiarized another text or misrepresented sources.

Students with Disabilities-- ADA Statement

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you have a disability requiring an accommodation, please contact:

Office of Student Disability Services
Velma K. Waters Library- Room 162
Phone (903) 886-5930

The syllabus/schedule are subject to change.

Fax (903) 468-8148

Email: StudentDisabilityServices@tamuc.edu

Website: <http://inside.tamuc.edu/campuslife/campusServices/StudentDisabilityServices/default.aspx>

Mental Health and Well-Being

The university aims to provide students with essential knowledge and tools to understand and support mental health. As part of our commitment to your well-being, we offer access to Telus Health, a service available 24/7/365 via chat, phone, or webinar. Scan the QR code to download the app and explore the resources available to you for guidance and support whenever you need it.



East Texas A&M Supports Students' Mental Health

The Counseling Center at East Texas A&M, located in the Halladay Building, Room 203, offers counseling services, educational programming, and connection to community resources for students. Students have 24/7 access to the Counseling Center's crisis assessment services by calling 903-886-5145. For more information regarding Counseling Center events and confidential services, please visit www.tamuc.edu/counsel

Nondiscrimination Notice

East Texas A&M will comply in the classroom, and in online courses, with all federal and state laws prohibiting discrimination and related retaliation on the basis of race, color, religion, sex, national origin, disability, age, genetic information or veteran status. Further, an environment free from discrimination on the basis of sexual orientation, gender identity, or gender expression will be maintained.

Campus Concealed Carry Statement

Texas Senate Bill - 11 (Government Code 411.2031, et al.) authorizes the carrying of a concealed handgun in East Texas A&M buildings only by persons who have been issued and are in possession of a Texas License to Carry a Handgun. Qualified law enforcement officers or those who are otherwise authorized to carry a concealed handgun in the State of Texas are also permitted to do so. Pursuant to Penal Code (PC) 46.035 and East Texas A&M Rule 34.06.02.R1, license holders may not carry a concealed handgun in restricted locations.

The syllabus/schedule are subject to change.

For a list of locations, please refer to the [Carrying Concealed Handguns On Campus](#) document and/or consult your event organizer.

Web url:

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/34SafetyOfEmployeesAndStudents/34.06.02.R1.pdf>

Pursuant to PC 46.035, the open carrying of handguns is prohibited on all East Texas A&M campuses. Report violations to the University Police Department at 903-886-5868 or 9-1-1.

COURSE OUTLINE / CALENDAR

All assignments are due at 11:59PM on the day they are due.

Week	Date	Topic	Assignments Due
1	1/14	Introduction	
	1/16	Measures of Central Tendency	
2	1/21	Measures of Central Tendency	Measures of Central Tendency Quiz due 1/22
	1/23	Describing Data using Distributions and graphs	
3	1/28	Z-scores	
	1/30	Sampling Distributions	Graphs, Z-scores, and sampling distributions Quiz Due 1/31
4	2/4	Independent Samples t-test	
	2/6	Independent Samples t-test	Homework 1 Due 2/9
5	2/11	Paired Samples t-test	
	2/13	Paired Samples t-test	t-tests Quiz Due 2/14 Homework 2 Due 2/16
6	2/18	EXAM 1	
	2/20	ANOVA	Homework 3 Due 2/23

The syllabus/schedule are subject to change.

7	2/25	ANOVA	One-way ANOVA Quiz Due 2/26
	2/27	Factorial ANOVA	Homework 4 Due 3/2
8	3/4	Factorial ANOVA	
	3/6	Factorial ANOVA	Factorial ANOVA Quiz Due 3/7
9	SPRING BREAK		
10	3/18	Repeated Measures ANOVA	
	3/20	Repeated Measures ANOVA	Repeated Measures ANOVA Quiz Due 3/21
11	3/25	EXAM 2	
	3/27	Correlation	Last day to withdraw with a grade of W 3/28
12	4/1	Correlation	Correlation Quiz Due 4/2
	4/3	Regression	
13	4/8	Regression	
	4/10	Regression	Regression Quiz Due 4/11
14	4/15	Experimental Designs	
	4/17	Experimental Designs	
15	4/22	Quasi-Experimental Designs	Experimental Design Quiz due 4/23
	4/22	Catch up & Review	
16	4/29	EXAM 3	
	5/1	Final Exam Review	
17	5/6	FINAL EXAM 10:30AM-12:30PM	

The syllabus/schedule are subject to change.