PSYC 305-01E, 80741, Stats and Research Design II

COURSE SYLLABUS: FALL 2025

INSTRUCTOR INFORMATION

Instructor: Will Whitham, Ph.D., Assistant Professor of Psychology
Office Location: Binnion 215B
Office Hours: Tuesday-Thursday 8:30-11:00 AM; by appointment
Office Phone: 903.886.5631
Office Fax:
University Email Address: will.whitham@etamu.edu
Preferred Form of Communication: email
Communication Response Time: 24-48 hours Monday-Friday, weekends and holidays may take longer than 48 hours.

COURSE INFORMATION

Textbook(s) Required

- Nestor & Schutt, Research Methods in Psychology (3rd edition)
  ISBN: 9781544323770
- Howell, Fundamental Statistics for the behavioral sciences (9th edition)
  ISBN: 9781305652972

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

Research Participation:

A goal of this class is to help you become familiar with psychological research. One way to obtain this goal is to have you participate in research studies. Participating in research studies contributes to students and faculty at East Texas A&M, your understanding of how research is conducted, and human knowledge in general. All students in this class will be required to participate in the psychology department's participant pool or complete alternative assignments (see me for more information on alternative assignments). Students must complete a total of 6 experiment credits. However, if you complete your first 4 experiment credits without any "no-shows" you will receive 2 free *punctual participant credits*. In other words, if you show up to your experiments on time you will only need to complete 4 experiment credits. When you first sign into the experiment management system (EMS) you will be asked to take a prescreen. The prescreen takes about 20 minutes to complete. If you complete the prescreen in the first two weeks of the semester you will receive ½ free experiment credit. This can be combined with later experiments that are worth ½ credit.

If you fail to complete this portion of the class your grade will be lowered by one full grade. In effect, if you have an 'A' in the class but fail to complete your research participation (either through participating in research studies, alternative assignments, or a mixture of both) your final grade in the class will be a 'B.' More information about participating in research, such as how to log in to the EMS, is given at the end of this syllabus.

Minimal Technical Skills Needed

You need to be able to use the following.

- Microsoft Office or equivalent
- PDF
- myLeo/Desire2Learn (D2L)
- Searching the internet for texts
- Using Library resources

In addition, refer to the following: https://carleton.ca/online/online-learning-resources/essential-technological-skills/

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.

Student Responsibilities or Tips for Success in the Course

Your attendance is a significant factor in student course grades. Start with attending our class and do the following basics.

1) Check and read class emails promptly for announcements, updates, clarifications, etc.
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. Consider the Pomodoro technique. Set aside 15-20 minutes each day and study. Do at least 3 Pomodoro sessions each week. Depending on your needs, you may need to do more. For more details, refer to "Secrets of Student Success" in our textbook Ch1.
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%

The *syllabus/schedule are subject to change.*

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

Makeup exams and assignments

Life happens. If illness or other circumstance prevents your completion of assignments, make-ups may be permitted at my discretion. Email me as soon as possible, and be ready to provide relevant documentation if requested. There will be no make-up exams except as mandated by University policy for University-excused absences, religious holidays and major illnesses. Students should contact the professor prior to the scheduled exam if possible, or within 24 hours of missing the exam due to accident or illness. Due dates for exams are listed below on the schedule of topics.

If you are traveling and representing the university (e.g., band members, athletes, etc.) you need to request accommodations BEFORE the exam or assignment is due, not after.

If you encounter any technical problems when you take any timed tests or assignments online, take screenshots and email me immediately for potential makeup.

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 procedures for lab and lecture grades are further broken by category below. The contribution of each assignment to the corresponding category (lecture or lab) appears next to each item.

Lecture

- Exams (60%) - There will be three exams given during the semester, plus a final exam. These four exams will be weighted equally.
- Homework (40%) – There will be homework activities turned in for a grade. These assignments are weighted equally and are designed to increase your understanding of how to interpret statistics software output and use that output to write an APA style results section.

Lab

- Graphs (10%) – Students will submit APA formatted graphs. These will be graded for accuracy.
- Results Section (20%) – Students will submit the results section for their paper. These will be graded for accuracy.
- Final Paper (25%) – 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.
- Attendance (10%) - Lab attendance and participation will be taken at the discretion of the lab instructor.
- SPSS Activities (35%) - Students will complete assignments using the statistics software SPSS as a class with the guidance of the lab instructor.

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:
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.

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.

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
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.

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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
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.

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

Week	Chapter	Topic
1	--	Introduction, Syllabus, Descriptive Statistics
2	Howell Ch.12 D2L Module 1	One Sample *t*-test
3	Howell Ch.13 D2L Module 1	Dependent Samples *t*-test
4	Howell Ch.14 D2L Module 1	Two Independent Samples *t*-test
5	**Exam 1**	
6	Howell Ch.16 D2L Module 2	One-Way Analysis of Variance (ANOVA)
7	Howell Ch.17 D2L Module 3	Factorial ANOVA
8	Nestor Ch.10 D2L Module 3 Howell Ch.15	Factorial ANOVA + Interactions + Power + Effect size
9	**Exam 2**	
10	Nestor Ch.7 Howell Ch.9 D2L Module 4	Correlations
11	Howell Ch.10	Regression
12	Nestor Ch.8-9 Nestor Ch.11	Experimental Design + Quasi-experimental Design
13	**Exam 3**	
14	**Fall Break**	
15	Review for Final Exam	
16	**Final Exam (according to university schedule)**	

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