



## PSY 610.01W

### Nonparametric Statistics

COURSE SYLLABUS: Summer II 2026

Online

### INSTRUCTOR INFORMATION

**Instructor:** Shifang Tang, Ph.D.

**Office Location:** Henderson 201A

**Office Hours:** [Zoom office hours] T/TH: 11:00 am to 1:00 pm

\*\*\*In-person/Zoom meetings by appointment

Changes to office hours announced on D2L

**Email Address:** shifang.tang@etamu.edu

**Preferred Form of Communication:** Email

**Communication Response Time:** 24-48 hours on weekdays

**Note.** Emails without proper salutations or not sent from LEOMAIL will NOT be responded to.

### COURSE INFORMATION

Materials – Textbooks, Readings, Supplementary Readings

**Textbook(s) Required:**

Corder, G. W., & Foreman, D. I. (2014). Nonparametric statistics: A step-by-step approach (2nd ed.). Wiley.  
ISBN: 9781118840313

**Other Required Materials:**

- A calculator or knowledge of using formulas in Excel.
- Access to SPSS/PASW or another approved statistical software package. SPSS is available in selected campus computer labs and library computers. Because SPSS versions may not always be backward-compatible, save data files as the default .sav file and export output files as directed by the instructor, most likely as .rtf or .pdf files.

### COURSE DESCRIPTION

PSY 610.01W is an advanced-level course designed to introduce students to the concepts and applications of nonparametric statistics. Emphasizing computational and computer competence, the course covers a range of topics essential for analyzing data in psychological research, including survival analysis, regression models, and robust estimation.

**Course Objectives:**

*The syllabus/schedule are subject to change.*

1. To provide students with a comprehensive understanding of nonparametric statistical techniques and their application in psychological research.
2. To develop students' computational and computer skills in performing statistical analyses using nonparametric methods.
3. To introduce students to a variety of nonparametric techniques, including paired and independent samples, survival analysis, linear and logistic regression, and categorical data analysis.
4. To apply nonparametric statistical methods to real-world psychological research scenarios, fostering critical thinking in data interpretation and analysis.

### **Student Learning Outcomes**

1. Students will be able to understand and explain the concepts and principles behind nonparametric statistical methods.
2. Students will gain proficiency in conducting nonparametric analyses using statistical software and interpreting the results in the context of psychological research.
3. Students will demonstrate the ability to apply nonparametric methods, such as survival analysis and robust estimation, to analyze different types of data in psychological studies.
4. Students will be able to critically evaluate and interpret nonparametric statistical findings, recognizing their strengths and limitations in psychological research contexts.

## **COURSE REQUIREMENTS**

### **Minimal Technical Skills Needed**

Be able to use

- the learning management system
- Microsoft Word, Excel, and PowerPoint
- Windows system or Mac system
- SPSS/PASW or another statistical software package as directed by the instructor

### **Instructional Methods**

This is an online course, which is not to be interpreted as self-paced. Rather, you are required to log on regularly (preferably every day) in order to succeed. You may consume the material at a more rapid pace than set by the schedule, but assignments and exams will still take place according to the schedule. Exams will be open for 1-2 days. If you are unable to complete an exam in this time frame, you must contact me ahead of time to re-schedule.

**The time and effort required for this course is equivalent to any upper-level graduate statistics course that you could take face-to-face. A high level of participation and effort will be necessary to succeed.**

### **Student Responsibilities and Tips for Success in the Course**

Read the assigned material: Read the assigned chapters carefully, follow the numeric examples closely, and write down questions about anything that is not entirely clear. Reading statistics requires close study and re-reading, not just reading through once as you might an ordinary book.

Complete the assigned homework: Statistics is a skill. It is necessary to do statistics, not just read about or understand statistical concepts. Homework assignments are designed to help you apply course material and prepare for exams.

Ask questions: If there is something you do not understand, ask questions as early as possible. You may email me directly. If you have spent significant time trying to resolve a problem and still cannot make progress, it is time to ask for help.

Utilize D2L: All instructions, due dates, and submission of graded material are to be completed in D2L. Email submissions will not be accepted unless explicitly approved by the instructor. Please familiarize yourself with D2L and contact me or IT with questions in advance.

## 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

### Questions about Grades

Any questions about a grade for a particular assignment or exam should be brought to the professor's attention within one week of the grades for that assignment or exam being posted.

### Assessments

Assessment	Quantity/Weight	Total Course Weight
Homework Assignments	5 assignments x 4% each	20%
Discussion Posts	4 discussions x 5% each	20%
Midterm Exam	1 exam	26%
Final Exam	1 exam	34%
<b>Total</b>		<b>100%</b>

Homework Assignments (4% each): There will be 5 homework assignments during the semester. These assignments are designed to increase your understanding of the topics being covered and give you the opportunity to apply course material. Due dates for homework assignments are listed in the course calendar. Assignments are due by 11:30 pm on the assigned due date. Include your name on each assignment. Homework assignments are intended to be completed individually. Do not work together on homework assignments.

Discussion Posts (5% each): You will be required to complete 4 online discussions. These require an original post addressing the assigned topic and at least one reply post in response to another student's original post. Discussion posts are due by 11:30 pm on the dates specified in the course calendar.

Exams (Midterm Exam: 26%; Final Exam: 34%): There will be two exams, a midterm exam and a final exam. Exams will be cumulative. The questions will require not only recognition of concepts and correct answers, but also comprehension and application of concepts. Material for the exams will be drawn from the text, lectures, and course materials.

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 when possible, or within 24 hours of missing the exam due to accident or illness. Students who can demonstrate a legitimate University-excused absence, religious holiday, or major illness are allowed to miss one exam during the term.

## TECHNOLOGY REQUIREMENTS

### LMS

*The syllabus/schedule are subject to change.*

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](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=universitymenu](https://inside.tamuc.edu/campuslife/CampusServices/CITESupportCenter/Zoom_Account.aspx?source=universitymenu)

## **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@etamu.edu](mailto:helpdesk@etamu.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 24 hours from Monday to Friday. It will take longer during holidays and weekends. I can also meet with you via Zoom. Please do not hesitate to contact me if you have any questions.

## **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**

*The syllabus/schedule are subject to change.*

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 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

Fax (903) 468-8148

Email: [StudentDisabilityServices@etamu.edu](mailto:StudentDisabilityServices@etamu.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](http://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	Dates	Topic	Assigned Readings	Assignment
1	7/6/2026 - 7/12/2026	Combinations and Permutations; Binomial Test; Z Approximation	Ch. 1	Discussion Post 1: July 8 Discussion Post 2 Homework Assignment 1
2	7/13/2026 - 7/19/2026	Testing Data for Normality; Comparing Two Related Samples	Ch. 2 & 3	Homework Assignment 2
3	7/20/2026 - 7/26/2026	Comparing Two Unrelated Samples; More than Two Unrelated Samples	Ch. 4 & 6	Midterm Exam Due: July 20 Discussion Post 3 Homework Assignment 3
4	7/27/2026 - 8/2/2026	Comparing Two Related Samples; More than Two Related Samples	Ch. 5	Homework Assignment 4
5	8/3/2026 - 8/6/2026	Comparing Variables of Ordinal or Dichotomous Scales; Tests for Nominal Scale Data	Ch. 7 & 8	Discussion Post 4: Due August 6 Homework Assignment 5: Due August 6 Final Exam Due: August 6

*\*Discussion posts and homework assignments are due on Sunday at 11:30 pm of each week unless otherwise noted on the schedule of topics above.*