

Statistics For Psychology

PSY 2317.0W2

Spring 2025

Online Instruction

Professor: Camilo J. Ruggero, PhD

Phone: (972) 883-4385

Email: Camilo.Ruggero@utdallas.edu

Office: GR 4.202C

Office Hours: Wednesdays 9-10 (if you email you plan to attend) or other times by appointment

Graduate Teaching Assistant: TBA

Email: TBA

Online Drop-In Tutoring Hours: TBA

Online Office Hours: TBA

Course Format

This course is almost fully online. However, exams are taken in person at the UTD testing center. All course material and content will be hosted on eLearning and will be made available asynchronously.

Course Pre-requisites, Co-requisites, and/or Other Restrictions

Pre-requisites: MATH 1306 or MATH 1314 or equivalent. This course is fully online and all materials, assignments, and exams will be hosted on the eLearning site. The course is asynchronous but there are weekly due dates that must be adhered to; please read this syllabus carefully for details.

Course Description

PSY 2317 - Statistics for Psychology (3 semester credit hours). This course introduces concepts and calculations of descriptive statistics, including mean, sum of squares, variance, standard deviation, correlation and regression. It also includes the logic of statistical decision making, the use of binomial and Gaussian distributions, and fundamental considerations in the design of psychological experiments.

Core Curriculum Objectives for this course:

Students will gain competency in these areas:

Critical Thinking (CT)-to include creative thinking, innovation, inquiry, and analysis, evaluation, and synthesis of information.

Communication (COM)-to include effective development, interpretation, and expression of ideas through written, oral, and visual communication.

Empirical and Quantitative Skills (EQS)-to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions.

Required Textbooks

Gravetter F. J., Wallnau L. B., Forzano L.-A. B. & Witnauer J. E. (2021). *Essentials of statistics for the behavioral sciences* (Tenth edition). Cengage Learning.

You may purchase the eTextbook or hardcopy version. The choice is yours. Hardcopies of the book are NOT required. You are welcome to find used copies of this book, but make sure they are the 10th edition, since this is the version we will be using. Keep in mind that if you purchase MindTap (has additional resources for studying), then you automatically get access to the eBook as well. You can visit link below to see purchase options for eBook or MindTap:

<https://www.cengage.com/c/essentials-of-statistics-for-the-behavioral-sciences-10e-gravetter-wallnau-forzano-witnauer/9780357365298/>

Suggested Readings/Texts

Additional suggested readings will be added as the semester progresses. All additional suggested reading will be made available on eLearning.

Technical Requirements

In addition to a confident level of computer and Internet literacy, certain minimum technical requirements must be met to enable a successful learning experience. Please review the important technical requirements on the [Getting Started with eLearning](#) webpage.

Course Access and Navigation

This course can be accessed using your UT Dallas NetID account on the [eLearning](#) website.

Please see the course access and navigation section of the [Getting Started with eLearning](#) webpage for more information.

To become familiar with the eLearning tool, please see the [Student eLearning Tutorials](#) webpage.

UT Dallas provides eLearning technical support 24 hours a day, 7 days a week. The [eLearning Support Center](#) includes a toll-free telephone number for immediate assistance (1-866-588-3192), email request service, and an online chat service.

Academic Calendar*

**This calendar schedule may change; if so, any changes will be posted on the course website and sent out as an announcement.*

**Readings are to be completed by the START of the week. Assignments are due by the Due Date. **Additional readings will be announced as the semester progresses.

WEEK (DATES)	TOPIC	READING**	ASSESSMENT / ACTIVITY	DUE DATE
Week 1 (01/21-01/24)	-Course Introduction -Statistics Introduction	Syllabus Chapter 1	HW_W1: Read Syllabus & Chapter 1	01/24, 6pm
Week 2 (01/27-01/31)	-Data Visualization -Frequency Distributions -Measures of Central Tendency	Chapters 2, 3	HW_W2	01/31, 6pm
Week 3 (02/03-02/07)	-Variability -Z-scores	Chapters 4, 5	HW_W3	02/07, 6pm

WEEK (DATES)	TOPIC	READING**	ASSESSMENT / ACTIVITY	DUE DATE
Week 4 (02/10-02/14)	-Probability	Chapters 6	HW_W4	02/14, 6pm
Anytime from 2/10 (Mon) to 2/13 (Th)	EXAM 1 Covers Chapters 1-5; Take In Person at UTD Testing Center during Center hours between 2/10 to 2/13. You must register 48 hours before!			End exam by 5pm on 2/13
Week 5 (02/17-02/21)	-Probability and Samples -Hypothesis Testing Intro	Chapters 7, 8	HW_W5	02/21, 6pm
Week 6 (02/24-02/28)	-Hypothesis Testing, Power	Chapters 8	HW_W6	02/28, 6pm
Week 7 (03/03-03/07)	-Intro to T-statistic	Chapters 9	HW_W7	03/07, 6pm
Week 8 (03/10-03/14)	-T-test Independent Samples	Chapters 10	HW_W8	03/14, 6pm
Anytime from 3/10 (Mon) to 3/13 (Th)	EXAM 2 Covers Chapters 6-9; Take In Person at UTD Testing Center during Center hours between 3/10 to 3/13. You must register 48 hours before!			End exam by 5pm on 3/13
<i>Week 9 (03/17-03/21)</i>	<i>SPRING BREAK</i>		<i>Recharge</i>	<i>None</i>
Week 10 (03/24-03/28)	Correlation Reliability & Validity	Chapters 14, TBA	HW_W10	03/28, 6pm
Week 11 (03/31-04/04)	Correlation and Regression Reliability & Validity	Chapters 14, TBA	HW_W11	04/04, 6pm
Week 12 (04/07-04/11)	Correlation and Regression, Reliability & Validity	Chapters 14, TBA	HW_W12	04/11, 6pm
Week 13 (04/14-04/18)	-T-test related samples	Chapters 11	HW_W13	04/18, 6pm
Anytime from 4/14 (Mon) to 4/17 (Th)	EXAM 3 Covers Chapters 10, 14, and assigned readings. Take In Person at UTD Testing Center during Center hours between 4/14 to 4/17. You must register 48 hours before!			End exam by 5pm on 4/17
Week 14 (04/21-04/25)	-ANOVA intro	Chapters 12	HW_W14	04/25, 6pm
Week 15 (04/28-05/02)	-ANOVA Two-factor	Chapter 13	HW_W15	05/02, 6pm

WEEK (DATES)	TOPIC	READING**	ASSESSMENT / ACTIVITY	DUE DATE
Week 16 (05/05-05/09)	-ANOVA Two-factor - Chi-Square	Chapter 13 Chapters 15	HW_W16	05/09, 6pm
Anytime from 5/12 (Mon) to 5/15 (Th)	EXAM 3 Covers Chapters 11, 12, 13 and 15; Take In Person at UTD Testing Center during Center hours between 4/14 to 4/17. You must register 48 hours before!			End exam by 5pm on 5/15

Video Lectures and Course Material

Video recordings of lectures and accompanying course materials will be posted weekly. Attempts will be made to post these by 5:00pm on the Monday of that week, but in cases where this does not happen, the due date for assignment will always be a week later from when the assignment and lecture videos were posted. Lectures will likely be broken up into segments to make them easier to view, but the total time will not exceed 3 hours per week and may be less than that total. Lectures and any accompanying material will be online until 9pm the night before an exam.

Keep in mind that lectures may cover content NOT covered in your textbook, and this material may be part of your exam.

Please keep in mind the recordings and course material are for registered students' use only.

IMPORTANT: Classroom materials including videos may not be reproduced or shared with those not in class or uploaded to other online environments except to implement an approved AccessAbility Resource Center accommodation. Failure to comply with these University requirements is a violation of the [Student Code of Conduct](#).

Students are expected to follow appropriate University policies and maintain the security of passwords used to access recorded lectures. Unless the AccessAbility Resource Center has approved the student to record the instruction, students are expressly prohibited from recording any part of this course. Recordings may not be published, reproduced, or shared with those not in the class, or uploaded to other online environments except to implement an approved AccessAbility Resource Center accommodation. Failure to comply with these University requirements is a violation of the [Student Code of Conduct](#).

Course Evaluation and Grading Policy

There will be **4 exams, weekly assignments and a semester-long research project** that will form the basis for your grade. The lowest two assignment scores will be dropped. There will be opportunities for extra credit during the semester, these will be announced in the lectures.

Letter	Percentage	Letter	Percentage
A	93-100	C	73-76
A-	90-92	C-	70-72
B+	87-89	D+	67-69
B	83-86	D	63-66
B-	80-82	D-	60-62
C+	77-79	F	59 or lower

Final grades will be determined by aggregating earned scores on the following assessments. Obtained scores will be weighted as follows:

Requirement	Weight in Final Grade
Exams	50%
HW Assignments	30%
Research Project	20%

All assigned grades will adhere to the allocations above and will not be changed upon request. Any grade dispute must be raised within one week of the posting of the grade in question. Grades will be posted on eLearning.

Other Course Policies

Homework Assignments

All homework assignments will be posted no later than 5pm Monday of the week indicated and due by 6pm on the Friday of that week. Some of these are short assignments, others are longer. Most assignments require hand calculations, and your work must be shown. Assignments are to be uploaded into eLearning when completed. Be sure to complete assignments individually. We will provide further instructions in each assignment about how to complete and how to submit.

For assignments that require data analysis using statistical software, you may use either SPSS, R, or JASP. You can choose to purchase SPSS for your own computer or use the one installed on several UTD computers. JASP is a user-friendly program that is similar to SPSS and is free. You can download JASP using the following link: <https://jasp-stats.org/>

Research Project

Every student is expected to complete a research project across the semester that uses one of the statistical tests discussed in class. We will provide a public data set or have you generate one. You are expected to select 2-4 variables and pose a simple research question of the data. You will then be expected to analyze the data using a statistical software program (e.g., SPSS, R, or JASP). You will present your results in either poster or PowerPoint format, alongside a 3–5-minute video describing your results and implications. Presentations must include analysis results as well as descriptions of the data in table or figure format. A more detailed guide to the project and expectations will be posted after the start of the semester.

Exams (In-Person) and Exam Administration

There will be 4 exams. Exams are NOT cumulative. A study sheet will be available for each Exam so you know the material that will be covered. **All exams must be taken in-person at the Testing Center on the UTD Campus.** Each exam will be open for a certain period of time and you can take it during any time that the testing center is open during the test availability window. Registration is required for each exam, and you must schedule your appointment at least 48 hours in advance. Please register for your exams early! If you are not able to take the exam because you did not register in time, you will not be allowed to take the exam late.

You must work alone on the exam, and by beginning the exam; you are agreeing with the following statement:

"I acknowledge the department's policy on academic dishonesty, and I will take the test alone, using my own notes."

Suspicion that you violated this agreement will be referred to the Office of Community Standards and Conduct for review. This statement will appear again in the instructions when you take the exam.

Make-up exams

Make-up exams are not normally given for this course. If they are given, they will be given only at the discretion of the instructor and only with a very substantial excuse that is clearly documented. To determine if a make-up exam will be permitted, the student must make an appointment to see the instructor to discuss. The make-up exam may be in essay format.

Course Incompletes

Incompletes will only be given if the only remaining requirement is completion of the fourth, final exam. An incomplete grade would need to be arranged prior to the final exam and would require approval of the instructor based upon a substantial excuse that is documented.

Late Work

A penalty of one letter grade will be assessed for each calendar day late. For example, if an assignment is due at 11:59 pm on a Friday, any submission made on Saturday....even one made at 12:01 am...will be considered one day late and penalized by one letter grade.

Research Exposure Credit Requirement (REC):

A requirement of all students enrolled in this class is completion of **two (2) research exposure credits**. This requirement provides students practical and direct experiences with research and is an important means to understanding behavioral research. Details about this requirement appear on the separate Research Exposure Credit Requirement handout posted on the course eLearning page.

Failure to complete the research exposure requirement will result in lowering your total grade in this class. For each Research Exposure Credit you fail to complete, your course grade will be reduced by 1/3 letter grade. For example, if you only complete one of the two required credits and your grade for all other course requirements is an A+, then your grade would be lowered from an A+ to an A. If you do not complete both credits, your grade would be lowered from an A+ to A-. The deadline for completion of these credits is **May 1, 2025 at 11:59pm CST**.

We are NOT going to wait to the last minute to complete this requirement, it can seriously damage your grade if you miss the deadline. I expect you to be proactive and complete this assignment by April 1st. If you do this by then, I will give you extra credit points. Anyone who does not complete this requirement by April 1 needs to meet with the TA to discuss when this will be completed to make sure you meet the December 1 department deadline.

Drop-In Tutoring

The TA will be available for drop-in tutoring on a weekly basis. PLEASE take advantage of this! Learning statistics solely online is tough, meeting with someone can help you understand what you do and do not comprehend. The TA will also organize study sessions before each exam.

Communication

This course utilizes online tools for interaction and communication. Some external communication tools such as regular email and a web conferencing tool may also be used during the semester. For more details, please visit the [Student eLearning Tutorials](#) webpage for video demonstrations on eLearning tools.

Student emails and discussion board messages will be answered within 3 working days under normal circumstances.

Academic Integrity / Misconduct: Students are reminded that academic misconduct will not be tolerated. For example: (a) copying another student's work, in part or in whole; (b) unauthorized communication to obtain information about a test(s); (c) using unauthorized material during a test; (d) handing in any work product that is not your own; (e) signing someone else's name; (f) failing to give credit to the intellectual property of another in any written work (including, but not limited to, plagiarizing). For a more extensive listing of behaviors that are considered misconduct please refer to the UT Dallas [Community Standards and Conduct](#).

Comet Creed

This creed was voted on by the UT Dallas student body in 2014. It is a standard that Comets choose to live by and encourage others to do the same:

“As a Comet, I pledge honesty, integrity, and service in all that I do.”

Distance Learning Student Resources

Online students have access to resources including the McDermott Library, Academic Advising, The AccessAbility Resource Center, and many others. Please see the [eLearning Current Students](#) webpage for more information.

Server Unavailability or Other Technical Difficulties

The University is committed to providing a reliable learning management system to all users. However, in the event of any unexpected server outage or any unusual technical difficulty which prevents students from completing a time sensitive assessment activity, the instructor will provide an appropriate accommodation based on the situation. Students should immediately report any problems to the instructor and also contact the online [eLearning Help Desk](#). The instructor and the eLearning Help Desk will work with the student to resolve any issues at the earliest possible time.

Academic Support Resources

The information contained in the following link lists the University's academic support resources for all students.

Please go to [Academic Support Resources](#) webpage for these policies.

UT Dallas Syllabus Policies and Procedures

The information contained in the following link constitutes the University's policies and procedures segment of the course syllabus. Please review the catalog sections regarding the [credit/no credit](#) or [pass/fail](#) grading option and withdrawal from class.

Please go to [UT Dallas Syllabus Policies](#) webpage for these policies.

The descriptions and timelines contained in this syllabus are subject to change at the discretion of the Professor.