Statistical Methods in Psychology Fall 2025

PSYCH 248 - Section 04
Lecture - Saturday (8:30am - 11:20am) HW 412
Lab - Saturday (12:30pm - 2:20pm) HE B118

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Office hours: Mondays (11:00am - 12:00pm) via Zoom
Tutor: _____

Course Description: Open to declared majors only. Analysis and interpretation of quantified data. Descriptive and inferential statistics applied to psychological research.

Prerequisites:

Psych 100 - Introduction to Psychology
One other 3 cr. PSYCH course
Engl 120 - Expository Writing (pre/coreq)
MATH 125 or STAT 113 with grade of C or better (or appropriate score on math placement exam)

Learning Outcomes:

1. Understand descriptive statistics and the logic of hypothesis testing in inferential statistics.
2. Learn to calculate and apply appropriate statistical tests for a given research design and level of measurement.
3. Utilize JASP software to conduct and interpret statistical analyses.
4. Understand properties of distributions and how sample size influences power.
5. Understand and appreciate the role of statistics in everyday life.

Required Text: Go Figure, Alliger et al (2022) an OER textbook, which means that it is free of charge. It is digital and is accessible via .

Attendance Policy: Attendance and participation is expected at all lab sessions. Absence from labs will have a small effect on your grade, (probably 3 points per lab) but can leave you feeling lost. Lab points may NOT be made-up if you are absent. However, you can do the activities and complete the lab worksheets on your own which may keep you from getting behind.

Grades:

Exams (50%) [3 out of 4 tests]
Lab Assignments (25%)

Weekly Worksheets (10%)	[10/11 worksheets]
Lab Projects (15%)	[3/3 Projects]
Textbook Homework (25%)	[15/16 HWs]

Grade Scales

Letter Grade	Percent Grade	GPA
A+	97.5-100	4
A	92.5-97.4	4
A-	90.0-92.4	3.7
B+	87.5-89.9	3.3
B	82.5-87.4	3
B-	80.0-82.4	2.7
C+	77.5-79.9	2.3
C	70.0-77.4	2
D	60.0-69.0	1
F	0.0-59.9	0

Note: You must earn a C or better in this course for it to count towards a major in psychology and in order to enroll in experimental psychology.
To request a Pass/No-Credit contact the Registrar's office.
https://hunter.cuny.edu/students/registration/register-for-classes/credit-no-credit/.
Students with a Major or Minor in Psychology cannot take courses for Pass/No-Credit. Talk to your psychology advisors for more info (schedule an appointment via Navigate: https://hunter.cuny.edu/navigate/advisors/)

Exams (50%)

There will be four tests in this course. The first three tests cover 4 to 6 chapters of the book, and the fourth test will be cumulative. The best three out of the four tests will be averaged for your final test grade. You do not have to attend the last test, if you are satisfied with your first three test grades, and will be considered 50% of the final grade.
Missing tests: Makeup exams are not allowed.

Lab Assignments (25%)

In the lab sessions you will learn the basics of the statistical program of JASP. You will hand in the lab worksheet at the end of the lab by uploading into the Lab Content Area in Microsoft 360. There will be 11 in-class lab worksheet assignments and 3 computer project assignments. Weekly worksheets will be worth 10% of your grade. The best ten out of the eleven worksheets will be

averaged for your final worksheet grade. Weekly worksheets must be completed during lab time and will not be accepted later without special arrangement (penalty). The 3 computer project assignments will require written analysis of data (15% of grade). Computer assignments will be specific to each section. You will have time and help with these during a lab session but need to do your own work on the written parts of the assignment.

Textbook Homework (30%)
There are 16 textbook homework consisting of even-numbered problems from the end of each chapter. The best 15 out of the 16 textbook homeworks will be averaged for your final textbook homework grade.
Each homework will be graded out of 3 points. Only 1-4 of the problems per chapter will be graded. If the HW is turned in on-time and is complete, you earn 1 on-time point. The remaining 2 points are determined by how accurately you answered the graded questions. If the TA cannot read your answer, it will be marked wrong and must SHOW ALL work in order to get full credit! It's a good idea to type your homework.

Instructions for joining Teams using your CUNY account:

1. Log out of all Hunter, CUNY and Microsoft applications on Chrome or Firefox or start with a fresh instance of a browser. (Chrome and Firefox are the preferred browsers. If you need to use Safari, see note below.)
2. Go to CUNY Office 365 at https://www.cuny.edu/about/administration/offices/cis/technology-services/microsoft-office-365-for-education/
3. Log in using your CUNY credentials firstname.lastname##@**login.cuny.edu** (NOT your MyHunter email and password)
4. If multiple factor authentication is required, you can enter your phone number and get a verification code by text. (You don't need to download the app.)
5. Navigate to "Teams" and join a Team using the code [ttmxl1r]. (The Teams page takes longer than expected to load. Be patient.)
6. We recommend you use M365 Teams on the web and don't download the App.

   Once you have joined the Team and have work to turn in:

7. Go to "Assignments" and submit a Word or PDF file for the assignment (Lab 1 or HW1). Make sure to click on "Turn in" after attaching the file.
8. Return to the "Assignments" link a few days later to see if your assignment was graded and returned to you.

Note 1: Most often when students cannot log into Office 365 it's usually because they are already logged in to Office with a different (maybe personal or work-related) account.

Note 2: Teams does not work on Safari unless you change the default privacy settings. Instructions are at https://support.microsoft.com/en-us/office/safari-browser-support-in-teams-1aac0a7c-35a8-42c1-a7df-f674afe234df?ui=en-us&rs=en-us&ad=us

Classroom Policies

I will try to answer any emails within 24-48 hours excluding weekends. Please make sure to include the course number and section into your email subject line.

Stat Tutors

Undergraduate statistics tutors will be available during specific office hours for help with homework, lab assignments, and studying for exams. A great resource!

College Policies:

Recording of Remote Classes: Students who participate in this class with their camera on or use a profile image are agreeing to have their video or image recorded solely for the purpose of creating a record for students enrolled in the class to refer to, including those enrolled students who are unable to attend live. If you are unwilling to consent to have your profile or video image recorded, be sure to keep your camera off and do not use a profile image. Likewise, students who un-mute during class and participate orally are agreeing to have their voices recorded. If you are not willing to consent to have your voice recorded during class, you will need to keep your mute button activated and communicate exclusively using the "chat" feature, which allows students to type questions and comments live.

Academic Integrity: Hunter College regards acts of academic dishonesty (e.g., plagiarism, cheating on examinations, obtaining unfair advantage, and falsification of records and official documents) as serious offenses against the values of intellectual honesty. The College is committed to enforcing the CUNY Policy on Academic Integrity and will pursue cases of academic dishonesty according to the Hunter College Academic Integrity Procedures.

From the Office of AccessABILITY: In compliance with the American Disability Act of 1990 (ADA) and with Section 504 of the Rehabilitation Act of 1973, Hunter College is committed to ensuring educational parity and accommodations for all students with documented disabilities and/or medical conditions. It is recommended that all students with documented disabilities (Emotional, Medical, Physical and/ or Learning) consult the Office of AccessABILITY located in Room E1124 to secure necessary academic accommodations. For further information and assistance please call (212- 772-4857)/TTY (212- 650- 3230).

Sexual Misconduct: In compliance with the CUNY Policy on Sexual Misconduct, Hunter College reaffirms the prohibition of any sexual misconduct, which includes sexual

violence, sexual harassment, and gender-based harassment retaliation against students, employees, or visitors, as well as certain intimate relationships. Students who have experienced any form of sexual violence on or off campus (including CUNY-sponsored trips and events) are entitled to the rights outlined in the Bill of Rights for Hunter College. a. Sexual Violence: Students are strongly encouraged to immediately report the incident by calling 911, contacting NYPD Special Victims Division Hotline (646-610-7272) or their local police precinct, or contacting the College's Public Safety Office (212-772-4444). b. All Other Forms of Sexual Misconduct: Students are also encouraged to contact the College's Title IX Campus Coordinator, Dean John Rose (jtrose@hunter.cuny.edu or 212-650-3262) or Colleen Barry (colleen.barry@hunter.cuny.edu or 212-772-4534) and seek complimentary services through the Counseling and Wellness Services Office, Hunter East 1123. CUNY Policy on Sexual Misconduct http://www.hunter.cuny.edu/diversityandcompliance/repository/files/cuny-policy-on-sexual-misconduct.pdf

Tech help for students

- https://hunter.cuny.edu/information-technology/support/
- Blackboard for students workshop recording
- Blackboard instructions/tutorials for students
- CUNY Office 365
- CUNY Dropbox

Schedule (subject to change)**:**

Week	Date	Class Type	Topics	Textbook	Assignments Due
Week 1	8/30/25	No Classes Scheduled			
Week 2	9/6/25	Lecture	Introduction to Statistics in Psychology Stats & Research Methods	Chapter 1	
		Lab	Introduction to JASP, Data Entry & Research Basics		Lab Worksheet #1
Week 3	09/13/25	Lecture	Organizing Data: Frequency Distributions Measures of Central Tendency	Chapter 2 Chapter 3	HW #1
		Lab	Displaying Data using Graphs & Tables; Frequencies, Means, etc		Lab Worksheet #2

Week 4	9/20/25	Lecture	Measures of Variability z-scores & Standardized Distributions	Chapter 4 Chapter 5	HW #2 HW #3
		Lab	More Descriptive Statistics; Central Tendency and Spread		Lab Worksheet #3
Week 5	9/27/25	Lecture	Probability & Samples Review/Practice test	Chapter 6	HW #4 HW #5
		Lab	**Computer Assignment 1: Descriptive Statistics & Sampling Distributions**		
Week 6	10/4/25	Lecture	**Exam 1 (Chpts 1-5)** Distributions of sample means	Chapter 7	HW #6 Last Chance for HWs 1-5
		Lab	Probability & Sampling Distributions		Lab Worksheet #4
Week 7	10/11/25	Lecture	Hypothesis Testing Intro to t-tests: One-sample t	Chapter 8 Chapter 9	HW #7
		Lab	Hypothesis Testing Concepts; single-sample t-tests		Lab Worksheet #5
Week 8	10/18/25	Lecture	Independent sample t-tests Related sample t-tests	Chapter 10 Chapter 11	HW #8 HW #9
		Lab	Single-sample t-tests; Independent sample t-tests		Lab Worksheet #6
Week 9	10/25/25	Lecture	Choosing the right t-test Review/Practice test		HW #10 HW #11
		Lab	More t Comparing 2 groups - Independent & Related-sample t-tests.		Lab Worksheet #7
Week 10	11/1/25	Lecture	**Exam 2 (Chpts 6-11)** One-way ANOVA	Chapter 12	Last Chance for HWs 6-11
		Lab	**Computer Assignment 2: Using t-tests to analyze data; writing results**		
Week 11	11/8/25	Lecture	One-Way ANOVA (cont.) Two-factor ANOVA	Chapter 12 Chapter 13	
		Lab	Comparing more than 2 groups - One-way ANOVA		Lab Worksheet #8

Week 12	11/15/25	Lecture	Factorial ANOVA	Chapter 13	HW #12
		Lab	Adding I.V.s - Two-Way ANOVA & Interactions		Lab Worksheet #9
Week 13	11/22/25	Lecture	Correlations	Chapter 14	HW #13
		Lab	Pearson Correlation & Simple Linear Regression		Lab Worksheet #10
Week 14	11/29/25	No Classes Scheduled			
Week 15	12/6/25	Lecture	Linear Regression Chi-Square & Non-Parametric tests	Chapter 15 Chapter 16	
		Lab	**Computer Assignment 3: Using ANOVA, Correlation & Regression**		
Week 16	12/13/25	Lecture	**Exam 3 (Chpts 12-16)**		HW #15 HW #16 Last Chance for HWs 12-16
		Lab	Identifying research designs, choosing statistics; Review and Wrap Up		Lab Worksheet #11
		Final Exam Date	**Cumulative Exam**		

Syllabus Change Policy:
Except for changes that substantially affect implementation of the evaluation (grading) statement, this syllabus is a guide for the course and is subject to change with advance notice.

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