Statistics 213: Introduction to Applied Statistics

Section 17, Spring 2026, TR 5:30 – 6:45 am, North Building 321
Instructor: Joseph Romero, email: romero.math.98@gmail.com
discord:
Office hours: Tuesday 4:15 – 5:15 PM, 924 Hunter East (Adjunct Office)

Catalog Description:

Sampling, estimation, tests of hypotheses, including one- and two-sample t-tests, two- and three-way tables for nominal and ordinal data, linear regression, analysis of variance through two-way with interaction, appropriate statistical software.

Learning Outcomes:

This course emphasizes statistical literacy and develops statistical thinking. Statistical literacy is promoted throughout the text in the many examples and exercises, drawn from published research findings and the popular press. Many of the examples and exercises discussed will highlight the central role of probability and statistics in 21st century science. Students should understand how to adequately interpret and communicate statistical results. Understanding the nature and role of variability is key to developing sound skills in statistical thinking.

Prerequisite: C or better in MATH12400, 12500, or 12550

Textbook: Introduction to Statistics and Data Analysis, Enhanced Review Edition (7th Edition) by Roxy Peck and Chris Olsen. Duxbury Press; **WebAssign is mandatory!**

Class key for self-enrollment: hunter 0308 6135

Grading Policy

There are two in-class non-cumulative tests, online homework assignments (worth 20% of the grade), and a final exam. The tests and final are closed book exams. Calculators and formula sheets are allowed. The final is comprehensive. **There will be no remake for the tests and final!** The final counts twice as much as the tests. Lowest score will be dropped (if lowest score is at the final exam, that score will be counted only once).

Test 1: Thursday, March 19
Test 2: Tuesday, May 12
Final exam: May 26 4 - 6PM

Tutoring
Table tutoring and audiovisual materials are available at The Dolciani Mathematics Learning Center, located at the Silverstein Student Success Center 7th Floor Hunter East. Tutoring is available remotely and on site. For hours and more information please visit www.hunter.cuny.edu/dolciani.

Student Resources
Counseling and Wellness Services offers free and confidential short-term counseling services, referrals, workshops, and support groups to all Hunter College students. Visit
http://www.hunter.cuny.edu/cws/counselingservices for more information.
Visit https://ww2.hunter.cuny.edu/students/student-life/emergency-support-and-resources/
for links to resources such as food pantries, emergency funding sources, and technology access.
Assistance with CUNY login, email, Hunter NetID:
studenthelpdesk@hunter.cuny.edu , (212) 650-3624
Academic Advising: http://www.hunter.cuny.edu/advising/
Financial Aid: https://hunter.cuny.edu/students/financial-aid/

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."

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 Accessibility." Call (212-772-4857)/TTY (212-650-3230) or visit http://www.hunter.cuny.edu/access for more information. Students are welcome to speak with me privately about any accommodations.

CUNY Statement on 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."

Tentative schedule

No class on Tuesday, February 17; spring break April 1-9

Week 1: January 27, 29. Chapters 1, 2
Week 2: February 3, 5. Chapters 3, 4
Week 3: February 10, 19. Chapter 4, continued, Chapter 6
Week 4: February 24. Chapter 6, continued
Week 5: February 26, March 3. Chapter 7
Week 6: March 5, 10. Chapter 7, continued; Chapter 8
Week 7: March 12, 17. Chapter 8, continued; Review for Test 1
Week 8: March 19, 24. Test 1; Chapter 9
Week 9: March 26, 31. Chapter 9 continued; Chapter 10
Week 10: April 14. Chapter 10, continued; Chapter 11
Week 11: April 16, 21. Chapter 11, continued; Chapter 12
Week 12: April 23, 28. Chapter 12, continued Chapter 15
Week 13: April 30, May 5. Chapter 15, continued; Chapter 5
Week 14: May 7, 12. Review for Test 2, Test 2;
Week 15: May 14, Review for the final