Statistics 213: Introduction to Applied Statistics
Section 14, Fall 2025**,** MW 5:30 - 6:45PM**,** North Bldg C102

Instructor: Ardalan Jalayer **Email:** aj145@hunter.cuny.edu **Office hours:** Tues 8:15-9:15p *(by appointment)*

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 int erpret and communicate statistical results. Understanding the nature and role of variability is key to developing sound skills in statistical thinking.

Textbook: Introduction to Statistics and Data Analysis, Enhanced Review Edition (6th Edition) by Roxy Peck, Chris Olsen, Jay L. Devore. Duxbury Press; **WebAssign is mandatory!** Webassign comes with online pdf version of the textbook so you do not need to buy the physical textbook, just the Webassign. Go to www.webassign.net and click "enroll in class" in the top right corner. There you will input the Class Key, which is given below. You will see my name and this class and you can then proceed to enter your info and payment.

Class key for WebAssign (self-enrollment): **hunter 3939 0915**

Grading Policy
There are two 60 minute in-class non-cumulative tests, online homework assignments (worth 20% of the grade), and a 120 minute 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).

Incomplete
Students wishing to request an INC grade must do so in writing explaining the reasons, AND have AT LEAST a C average.

Dolciani Mathematics Learning Center Resources
The Dolciani Center is doing online tutoring to help students during the quarantine. Email and website below:
General information: dmlc@hunter.cuny.edu
Dolciani website: 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 (Blackboard, CUNYfirst), 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."
CUNY Policy on Sexual Misconduct Link: http://www.cuny.edu/about/administration/offices/la/Policy-on-Sexual- Misconduct-12-1-14-with-links.pdf

Tentative Course Schedule:

Date		Topics	Text Sections
Wed	8/27	Introduction	1.1-1.4
Wed	9/3	Graphical summaries of data	3.1-3.3
Mon	9/8	Numerical summaries of data	4.1-4.4
Wed	9/10	Probability	6.1-6.3
Mon	9/15	Random variables	7.1-7.4
Wed	9/17	The binomial distributions	7.5
Mon	9/29	The normal distributions	7.6
Mon	10/6	The sampling distribution of the sample mean	8.1-8.2
Wed	10/8	Review	
Tue	10/14	**First midterm exam**	
Wed	10/15	Confidence intervals for proportions	8.3, 9.1-9.2
Wed	10/22	Confidence intervals for means	9.3
Fri	10/24	Hypothesis testing	10.1-10.2
Mon	10/27	Hypothesis tests for proportions	10.3
Wed	10/29	Hypothesis tests for means	10.4
Mon	11/3	Comparing two means	11.1
Wed	11/5	Review	
Mon	11/10	**Second midterm exam**	
Wed	11/12	Paired data	11.2
Mon	11/17	Comparing two proportions	11.3
Wed	11/19	Conditional probability and independence	6.4-6.5
Mon	11/24	Bayes' rule	6.6
Wed	11/26	Inference in two-way tables	3.1, 12.2
Mon	12/1	Bivariate data: scatterplots and correlation	3.4, 5.1
Wed	12/3	Least squares regression	5.2-5.3
Mon	12/8	The simple linear regression model	13.1-13.2
Wed	12/10	One Factor ANOVA	15.1
Mon	12/15	Review (last class meeting)	
Wed	12/17	**5:20 – 7:20pm Final Exam**	