

## Elementary Statistics: V55.0105

**Instructor:** Dr. Frank E. Curtis

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**Textbook:** J. E. Freund and B. M. Perles, *Modern Elementary Statistics*, Twelfth Edition

**Lecture:** Mondays and Wednesdays at 2:00pm to 3:15pm in Silver 101A

**Office Hours:** Thursdays 10:00am-11:00am and Fridays 10:00am-11:00am

**Summary:** The purpose of the course is to understand and use statistical methods. Mathematical theory is minimized. Actual survey and experimental data are analyzed. Computations are done with desk or pocket calculators. Topics: description of data, elementary probability, random sampling, mean, variance, standard deviation, statistical tests, and estimation.

**Grading:** The course grade will consist of homework (10%), three quizzes (20% each), and a final (30%). Homework will be assigned every Monday and will be due at the beginning of the following Monday's class. Homework will not be accepted after class begins. Homework can be worked on with a partner, but must be written up individually. Quizzes will be given during class hours. The location of the final will be announced later in the semester.

**Tutoring:** Free help is available through the College Learning Center (Weinstein Hall, [www.nyu.edu/cas/clc/index.html](http://www.nyu.edu/cas/clc/index.html)) and through the Mathematics department (hours will be posted on the 7th floor of Warren Weaver Hall).

**Calculators:** Calculators are allowed.

**Class Attendance:** You are responsible for knowing the material as we cover it. Class attendance is highly recommended, as is reading the chapters before class.

<b>Week</b>	<b>Lecture Dates</b>	<b>Reading</b>	<b>Chapters: Topics</b>
1	Wed. 9/5	Chap. 1-4	1-2: Summarizing data, listing, grouping 3-4: Location, variation
2	Mon. 9/10 Wed. 9/12	Chap. 5.1-5.4	5.1-5.2: Counting, permutations 5.3-5.4: Combinations, probabilities
3	Mon. 9/17 Wed. 9/19	Chap. 6.1-6.4	6.1-6.4: Probability rules
4	Mon. 9/24 Wed. 9/26	Chap. 6.5-6.7	<b>9/24: Quiz 1</b> 6.5-6.7: Conditional probability
5	Mon. 10/1 Wed. 10/3	Chap. 7.1	7.1: Expectation
6	Mon. 10/8 Wed. 10/10	Chap. 7.2	<b>10/8: No class</b> 7.2: Decision making
7	Mon. 10/15 Wed. 10/17	Chap. 7.3	7.3: Decision problems
8	Mon. 10/22 Wed. 10/24	Chap. 8.1-8.2	<b>10/22: Quiz 2</b> 8.1-8.2: Probability distributions
9	Mon. 10/29 Wed. 10/31	Chap. 8.3-8.5	8.3-8.5: Binomial, hypergeometric, and Poisson distributions
10	Mon. 11/5 Wed. 11/7	Chap. 8.7-8.8, 9.1	8.7-8.8: Mean, standard deviation 9.1: Continuous distributions
11	Mon. 11/12 Wed. 11/14	Chap. 9.2, 9.4-9.5, 10.1	9.2, 9.4-9.5: Normal distribution 10.1: Random sampling
12	Mon. 11/19 Wed. 11/21	Chap. 10.6-10.8	<b>11/19: Quiz 3</b> 10.6-10.8: Central Limit Theorem
13	Mon. 11/26 Wed. 11/28	Chap. 11.1-11.3	11.1-11.2: Mean estimation 11.3: Deviation estimation
14	Mon. 12/3 Wed. 12/5	Chap. 12-13	12-13: Hypotheses Tests
15	Mon. 12/10 Wed. 12/12		Review
16	Mon. 12/17		<b>12/17: Final Exam</b> (12:00pm - 1:50pm)