

## Math 10 - Elementary Statistics

**Instructor:** Parran Vanniasegaram

**Office Hours:** TuTh 5:45 pm - 6:15 pm on 2nd floor of the MLC

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Please do not hesitate to contact me with any questions that you have. I am very happy to answer all of your questions!

**Textbook:** *Understanding Uncertainty, 3rd Edition*, by Soler

**Calculator:** You will need to purchase a TI-83+ or TI-84+ calculator; it will be needed for the labs, homework, quizzes, and exams.

**Course Description:** This course is an introduction to the study of statistics. It does not require a knowledge of calculus but does assume a familiarity with the concepts of intermediate algebra. Students will learn methods of displaying data, descriptive statistics, basic concepts of probability theory, random variables, common statistical distributions, estimates and sample size, hypothesis testing, goodness-of-fit test, contingency table analysis, test of two independent population parameters, and regression and correlation. Students will apply basic statistical concepts to data from education, business, social sciences, and natural sciences. To aid in the analysis of data, the use of technology will be required.

**Time Commitment:** As stated in the De Anza College course catalog, students are expected to spend at least two hours studying outside of class for each credit hour. That means you should be spending at least **four and a half hours** on each homework assignment (reviewing the notes, reading the textbook, doing the homework problems, watching videos related to the course material, etc.).

**Student Learning Outcomes:** Upon completion of this course, the student will be able to:

- 1) Organize, analyze, and utilize appropriate methods to draw conclusions based on sample data by constructing and/or evaluating tables, graphs, and numerical measures of characteristics of data.
- 2) Identify, evaluate, interpret and describe data distributions through the study of sampling distributions and probability theory.
- 3) Collect data, interpret, compose and defend conjectures, and communicate the results of random data using statistical analyses such as interval and point estimates, hypothesis tests, and regression analysis.

**Disabled Students Program and Services:** If you have a physical or learning disability that requires special accommodations, please see the Disabled Students Program Counselor. Contact me within the first week of class to communicate your accommodation needs.

**Attendance:** You are expected to attend all classes, arrive on time, and stay for the entire class; I take attendance every single class. I reserve the right to drop/withdraw students who are absent more than **two** times during the quarter. If you miss class, please send me an email (my email address is above) explaining the reason.

**Withdrawal/Drop Policy:** It is the ultimate responsibility of the student to formally drop the class. You should not rely on the instructor to drop you from a class for non-attendance. You may drop by telephone using the STAR system, or online, or by completing the proper forms in the Office of Admissions and Records. To be eligible for a refund of fees and/or prevent a recorded grade of "F" or "W", you must drop the class on or before the following posted dates:

January 18 - Last day to drop without a "W" and apply for a refund.

February 26 - Last day to drop with a "W".

**Student Conduct:** A student who is disruptive will be asked to leave the class. A student who refuses to leave the room will be dropped from the class and will be reported for further action. Please read the course catalog for more information.

**Cell Phone Use:** There is no reason to have your cell phone out during class. If I see your cell phone, I will ask you to put it away.

**Academic Dishonesty:** Cheating is absolutely forbidden in my class. Students who submit the work of others as their own or cheat on exams or other assignments will receive a failing grade in the course and will be reported to college authorities. Please look at the course catalog for more information.

**Homework** is collected every class and each homework assignment is worth ten points until one week before the 'W' date. The first four assignments after that point will be each worth 5 points extra credit. The last few homework assignments will be collected, but not graded.

**Best Homework Extra Credit:** Extra credit will be awarded every class before the 'W' date to the students with the best homework assignments. The best homework will be decided based on completeness and accuracy.

**Labs:** Three lab assignments will be given and each is worth three extra credit points.

**Quizzes:** There will be a quiz given right at the beginning of every single class before the 'W' date. Each quiz is worth twenty points.

**Exams:** There will be three exams and each exam is worth 100 points.

**Final Exam:** The final exam will be given during final exam week and it is worth 250 points; it covers the entire semester.

**Grading:** Here is my grading scale:

A	B	C	D	F
90% - 100%	80% - 90%	70% - 80%	60% - 70%	0% - 60%