D010.55Z, Fall 2021

About the Instructor

The instructor, Salvador Guerrero, may be reached by e-mail at guerrerosalvador@fhda.edu
and is available for office hours, via Zoom, Monday – Thursday from 8:30am – 9:20am.

My intention is for our space to be a supportive, engaging, and accepting environment in which you may comfortably explore and expand your mathematical abilities. Please do not hesitate to reach out if ever you have any questions, we will work together to help resolve them.

About the Course

The course is Math 10 – Introductory Statistics, section 55Z with CRN 01509
and is completely asynchronous (no scheduled meetings)

Materials

For this course you will need a computer with internet access as all the course materials will be in Canvas. You will also need to be able to run Minitab software (it runs in web browser also). The textbook we will be using, Openstax Introductory Statistics, is available for free online at https://openstax.org/details/books/introductory-statistics. It is preferable and advised that you have a separate notebook for this course.

Requisites

This course has a prerequisite of Intermediate Algebra (MATH 109, MATH 114 or MATH 130) or equivalent.

Time Commitment

As with most college courses you should expect to dedicate about 3 hours per unit per week for this course; this is a 5-unit course. This includes reading, homework, discussion, live meetings, etc. It may be that you don't need all this time but it is best to plan for it just in case.

Description

This course is an introduction to data analysis making use of graphical and numerical techniques to study patterns and departures from patterns. The student studies randomness with an emphasis on understanding variation, collects information in the face of uncertainty, checks distributional assumptions, tests hypotheses, uses probability as a tool for anticipating what the distribution of data may look like under a set of assumptions, and uses appropriate statistical models to draw conclusions from data. The course introduces the student to applications in engineering, business, economics, medicine, education, social sciences, psychology, the sciences, and those pertaining to issues of contemporary interest. The use of technology (computers or graphing calculators) will be required in certain applications. Where appropriate, the contributions to the development of statistics by men and women from diverse cultures will be introduced. This Statistics course is a required lower-division course for students majoring or minoring in many disciplines such as data science, nursing, business, and others.

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Assignments

Our mathematical exploration will involve reading, discussion, and practice. It is important that you set an appropriate study schedule so that your learning may benefit most. In order to help you keep pace we will have labs at the end of each chapter. You are expected to read the text so that you may participate in the group activities and so that you can complete the homework.

Grading

I hope that you find the following grading criteria helpful in creating a stress-free learning experience. Letter grades A; B; C correspond, respectively, to criteria listed as a; b; c

- 100% labs score 2 or better, 50% score 3 or better; 80% exams score 2 or better, 25% labs score 3; 70% labs score 2 or better. You will be able to correct after receiving feedback.
- Participation 90%; 80%; 70%
- Final Project score of satisfactory.

Note: + and - grades do apply depending on various sub-scores of categories. The lowest weekly score is omitted for each category in the computations above. If at any time you are concerned about the letter grade please do not hesitate to reach out. It is best if you make sure to bring it up early but I will always help guide you to your best resolution.

Policies and Resources

Tutoring/Additional Help

Please know that our college provides several resources to help in your learning objectives including tutoring at the SSC (please see http://deanza.edu/studentsuccess/), tutoring via NetTutor (see Canvas), and of course a library (http://www.deanza.edu/library/).

Also keep in mind that it is 2021, well into the future now, and the internet is a powerful tool literally at our fingertips. In Canvas you will find various links to freely available video series, sample problems, and even calculators.

Accommodation of Disability

If you have any disability, permanent or temporary, that might affect your ability to fully participate and perform your best please contact the Disability Support Services office (http://www.deanza.edu/dsps/) so that you may receive the support and accommodations you might find helpful.

Academic Integrity

Please be honest, both to yourself and to me, about your learning and understanding at all times. If you are caught cheating you will receive a score of 0 on that assignment and may be reported to the appropriate office on campus.

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Student Learning Outcome(s):

*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.

*Identify, evaluate, interpret and describe data distributions through the study of sampling distributions and probability theory.

*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.