Syllabus

Contact Information

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Course Description

Elementary Statistics is an introduction to data analysis course that makes use of graphical and numerical techniques to study patterns and departures from patterns. The student studies randomness with 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, the sciences, and other related fields. The use of technology (computers or graphing calculators) will be required in certain applications.

Prerequisites

Advisory: Readiness for freshman English.

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Texts, Materials, and Plug-ins

Texts

The following textbook is required for the course. It is available for purchase at the De Anza College Bookstore and available for free online.

Introductory Statistics , Barbara Illowsky & Susan Dean

Available for free at: https://openstax.org/details/introductory-statistics

Materials

Required Calculator: The TI-83+ or 84 calculator is required. There are many examples that use the calculators and contain the calculator instructions. YOU WILL BE TAUGHT HOW TO USE THE CALCULATOR IN THE COURSE LESSONS through linked videos.

Labs and projects make use of the TI graphing calculator and may be done individually or in groups of up to four.

- Other Calculators: TI-86 or TI-89

  You may use the TI-86 or TI-89 calculator if you have one, but you must have the programs loaded into it from the following TI-86 or TI-89 Web pages.

Plug-in's and Players

- Download the free Flash Player to view and listen to some of the animations.
- Download the free Real Player (for the audio/video half-hour course lessons in the Resources Area.
- Download the free Quick Time plug-in for viewing Quick Time movie in your browser.

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Homework

The purpose of homework is to help you learn the material in the course. You learn the most and do your best if you do the homework problems. The homework will NOT be collected. It is for you to do on your own for practice. You are expected to do the chapter PRACTICE in the workbook before attempting the homework. The answers to the Practice are in the back of the workbook. Then do the assigned odd numbered homework problems in the text and check those answers in the back of the text. Again, do not turn in the homework, it is for your own practice.

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Labs

Labs make use of the TI graphing calculator.
The labs may be done individually or in groups of up to four members. If you know (or get to know) others in the Distance Learning class, you are encouraged to work in groups. Turn in one copy with all of the group members' names on the top.

SUBMITTING LABS:

You can submit the labs to me by importing them into Canvas or sending them to me as an email. Your lab can be submitted as a photo or pdf file.

Please retain a copy of your papers for your files.

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Exams

There are two midterms and one final. You will have an hour to complete each midterm and two hours to complete the final. The exams will be taken online similar to how you take the quizzes.

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Here is the breakdown of our grades. The total points for the class is 470. Your grade will consist of your top 8 quiz scores, the two midterms, three labs, and your final. If you add up the points you received for each of these items, you can use the total to look up your grade in the table below.

Points (out of 470)		
A+: 454-470	A: 438 - 453	A-: 421 - 437
B+: 406-420	B: 390 - 405	B- : 374-389
C+: 358-373	C: 327- 357	
D: 282-326		
F: Below 282		

**** Note: There are no exam makeups! However, if the score on your final exam is higher than any one of your midterms, I will replace your lowest midterm score with your final exam score.

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Dropping the Course

If you wish to drop the course, it is your responsibility to either drop online from the De Anza Web site or fill out a drop form and turn it into admissions and records. I do not need to sign the drop slip. Please inform me by Catalyst email if you do drop. IT IS YOUR RESPONSIBILITY TO DROP OR WITHDRAW IF YOU NEED TO.

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Topics to Skip

Please skip the following topics when you see them here online or in your text book.

Chapter 3	Venn Diagrams
Chapter 4	Geometric, Hypergeometric
Chapter 7	Central Limit Theorem for Sums
Chapter 11	Test of One Variance

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Cheating

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.

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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.