De Anza College   Syllabus for

Elementary Statistics

Math 10-sec 02:   ID 24929   Fall 2019

Instructor	Office	Phone	E-mail	Class days/Time Monday-Thursday 7:30 am 8:20 am	Location	Office Hours*
Neelam Shukla	R. E 37	408-913-5225	Shuklaneelam@fhda.edu		S 54	MW 9:30-10:00 am TTh 5:45- 6:15 pm Friday 9:30- 10:30 am E 37

This is a demanding, but rewarding class. It will take a minimum of 10 hours per week of study and group work. This is also a collaborative class. You will be expected to work with your classmates both inside and outside of class (no exceptions).

Textbook: Text: **Collaborative Statistics, 1st Edition** by Illowsky and Dean
https://openstax.org/details/introductory-statistics
This text is available for free downloading at You may download the text for free onto your computer and print out the pages you want.

Materials: **TI84 or TI-83 PLUS** graphing calculator (see www.rentcalculators.org to rent a calculator for $9 per month);

Math 10 Worksheet Packet: available for purchase at the bookstore. **Ruler, small stapler**.

Free Tutoring: The Math Tutoring Center in Room S43 offers free tutoring on Mondays, Thursdays from 9:00A.M.-5:30P.M. I strongly encourage you to utilize this resource. More information can be found here: http://www.deanza.edu/studentsuccess/mstrc/

Supplemental Resources: I encourage you to poke around the library and web to see what other supplemental resources exist. One great resource is the following link: http://tutorial.math.lamar.edu/Classes/Alg/Alg.aspx

Disability Support Services: If you need to contact the Disability Support Services, then please contact them as soon as possible. More information can be found here: https://www.deanza.edu/dss/

Academic Integrity: This is pretty straightforward: Do not cheat on quizzes, exams, or directly copy other student's work. It is not worth getting caught and suffering the consequences. For more information about De Anza College's policy on academic integrity: https://www.deanza.edu/studenthandbook/academic-integrity.html

Policies for This Class: These policies are part of the syllabus and will be strictly enforced. By enrolling in this course, you as the student agree to accept these policies and follow them and agree that the instructor reserves the right to drop a student from the course with a W if any of the policies are violated. Further action may also be taken against a student who violates specific policies, such as the policy on cheating.

• **Cell phone use (talking on your phone, texting, etc.) during lecture is not allowed**. This is considered to be rude behavior and tells me that you are not paying attention in class. If you are using your phone, then you will be warned once to stop. If it happens again, then you may be asked to leave the class

and you will not be allowed back into the class until you emailed the instructor or talked to him before the next class meeting.

• Talking during class is also not allowed. This is also considered to be rude behavior, and it is distracting to the professor. If you are being disruptive and talking to another student during class, then I reserve the right to move you to the front of the classroom or I may ask you to leave the class and you will not be allowed back until the class until you have emailed the instructor.

If you have an emergency and need to use your cell phone, then you are free to excuse yourself from class to deal with the situation.

Quizzes: Quizzes and group quizzes are closed book and with one page of handwritten notes (one side) allowed. Quizzes will test your understanding and completion of the homework problems. **Your lowest quiz grade will be dropped.** *No make-ups are given.* 20%

Labs: Lab assignments make use of the calculator. 10 %
Projects:

Homework: The purpose of homework is to help you learn the material in the course. **Do the practices first**. We will usually start them in class. They must be turned in with your HW. Then do the HW problems assigned. The answers are at the end of each chapter. You must show your work for all HW problems. Graphs must be done with a ruler. No credit will be given for answers only. **Each student may turn in a HW assignment one day late ONCE during the quarter. Other than this, no late HW will be accepted. Your lowest HW score will be dropped.** 10%

Exams: 4 exams will be given. *No make-ups are given.* Exams are closed book. Students may bring to the exam one 8 ½" x 11" page (both sides) of **handwritten** notes, a calculator, and, if English is a second language, an English translation dictionary. *One minimum score will be deleted.* *35%*

Final Exam: A two-hour comprehensive exam will be given. Students may bring 2 pages (both sides) of handwritten notes to the final. *Finals must be taken at scheduled time during finals week*. 25%

Attendance: You are expected to attend all classes and be punctual.

Labs, homework and projects are due by the start of class on the due date and next day. *They may be turned in earlier, but THEY WILL NOT BE ACCEPTED LATER than one day.*

 Topics to Skip

Ch 3: Venn diagrams	Ch 4: Poisson, Geometric, Hypergeometric Distributions
Ch 5: Exponential Distributions	Ch 7: Central Limit Theorem for Sums
Ch 11: Test of One Variance	Ch 13: Test of Two Variances

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   • **Dates for Exams and quizzes**: Exam/Quiz,Homework and Lab Dates will be published on Canvas.
   Please keep track for all the notifications for exams and other assignments will be notified by canvas.

   (I will withdraw 1 exam and 1 Quiz with least score at the end)

• Grade Breakdown: 90-93 % A-, 94–100% = A, 80-83 B-, 84–86% = B, 87-89 B+ 70–75% = C. 76-80% C+, 60-69% D. below 60% = F.

1st Week (Sept 23-27)	Chapter 1 Sampling and Data, Descriptive Statistics Group Quiz 1	Quiz 1
2nd Week (30 sept-4Oct)	Descriptive Statistics; Probability Topics Exam 1	Exam 1
3rd Week (7-11 Oct)	Probability Topics; Discrete Random Variables Quiz 2	Quiz 2
4th Week (14-18 Oct)	, Exam 2 Continuous Random Variables	Exam 2
5th Week (21- 25 Oct)	Normal Distribution; Central Limit Theorem	
6th Week (28- 30 Oct 1 Nov)	Confidence Interval Quiz 3	Quiz 3
7th Week (4- 8 Nov)	Hypothesis Testing with One Sample Exam 3	Exam 3
8th Week (11-15 Nov)	Hypothesis Testing with Two Samples Quiz 4	Quiz 4 (11th Nov Veteran's Day)
9th Week (18- 22 Nov)	Chi-Square Distribution	
10th Week (25-29 Nov)	Linear Regression and Correlation Exam 4	Exam 4 (28/29 Nov Thanksgiving)
11th Week (2-6 Dec)	F-Distribution and One-Way ANOVA review	
12th Week (9 -13 Dec)	Final Exam 9th Dec	7am- 9 am Monday

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.