De Anza College   Syllabus for Elementary Statistics
Math 10-sec 09:   ID 12523   summer 2018

Instructor	Office	Phone	E-mail	Class days/Time Monday-Thursday 3:00 pm 5:15 pm	Location	Office Hours*
Neelam R. Shukla	E 37	408- 913-5225	Shuklaneelam@fhda.edu		S 54	Monday-Thursday 5:30-6:00pm 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.

Instructor Web site: **http://faculty.deanza.fhda.edu/mathiosdiane/**

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.*** 15%

Labs: Projects: Lab assignments make use of the calculator. 15 %

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 1: 5th July
-   Exam 2: 12th July
-   Exam 3: 19th July
-   Exam 4:   30th July (leave 1 exam with least score)

• 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 July 2-5	Chapter 1 Sampling and Data, Descriptive Statistics Group Quiz 1	
	Exam 1 Descriptive Statistics; Probability Topics	Exam 1
2nd Week July 9-12	Probability Topics; Discrete Random Variables Quiz 2	
	, Exam 2 Continuous Random Variables	Exam 2
3rd Week July 16-19	Normal Distribution; Central Limit Theorem Quiz 3	
	Confidence Interval Exam 3	Exam 3
4th Week July 23-26 7th Week	Hypothesis Testing with One Sample	
	Hypothesis Testing with Two Samples Quiz 4	
5th Week July 30,31 Aug 1,2	Chi-Square Distribution Exam 4 Linear Regression and Correlation	Exam 4
6th Week Aug 6-9	F-Distribution and One-Way Quiz 5 ANOVA review	
	Final Exam	

First day of Summer Session: **July 2**

Independence Day - Campus Closed: **July 4**

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.