Syllabus for Elementary Statistics

Math 10-sec 07: ID 35747 *Elementary Statistics*, Winter 2019

Instructor	Office	Phone	E-mail	Class days/Time	Location	Office Hours*
Neelam R. Shukla	E 37	408- 913-5225	Shuklaneelam@fhda.edu	MTWThF 8:30 am 9:20 am	S16	Tues,Thur 9:30 am-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.

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.*** 20%

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

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 during the quarter. Other than this, no late HW will be accepted.** 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, later with credit reduction. *They may be turned in earlier, but THEY WILL NOT BE ACCEPTED LATER than two days.*

- **Dates for Exams and quizzes**:
- Exam 1 : 18 Jan — Quiz 1 : 15th Jan
- Exam 2: 5th Feb — Quiz 2: 24nd jan
- Exam 3: 27th Feb — Quiz 3 : 22nd Feb
- Exam 4: 15th March — Quiz 4 : 7th March

• 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.

7-11 Jan	Chapter 1 Sampling and Data, Descriptive Statistics	
14-18 Jan	Descriptive Statistics; Probability Topics	group-Quiz 1(chap 1,2) Exam 1 (Chap 1,2,3) LAB 1(18 Jan)
22-25 Jan	Probability Topics; Discrete Random Variables	Quiz 2(Chap 3,4)
28-31 Jan 1 Feb	Continuous Random Variables	LAB 2 (30th Jan)
4-8 Feb	Normal Distribution; Central Limit Theorem	Exam 2 (Chap 4,5,6)
11- 14 Feb	Confidence Interval Group	LAB 3 (13 Feb)
19-22 Feb	Hypothesis Testing with One Sample	Group-Quiz3 (Chap 7,8)
25- 28 Feb 1st March	Hypothesis Testing with Two Samples	LAB 4 (28th Feb) Exam 3 (Chap 7,8,9)
4-8 March	Chi-Square Distribution , Linear Regression and Correlation	Quiz 4(Chap 10)
11-15 March	F-Distribution and review	LAB 5 (13 March) Exam 4 (Chap 10,11)
18-22 March	One-Way ANOVA	Review for Final
25th March	Final Exam	**Final Exam: Monday 7-9 am**

Important dates:

JANUARY 7

First Day of Winter Quarter

JANUARY 19

Last day to add classes for winter quarter

JANUARY 20

Last day to drop classes for full refund or credit

JANUARY 20

Last day to drop classes with no record of "W"

JANUARY 21

Martin Luther King Jr. Holiday - Campus Closed

FEBRUARY 1 Last day to request "Pass/No Pass" for winter quarter

FEBRUARY 15-18

President's Holiday - Campus Closed

MARCH 1

Last Day to Drop with a "W"

MARCH 25-29

Final Exams

MARCH 29

Last day to file for a winter degree or certificate

MARCH 29

Last Day of Winter Quarter

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.