



Syllabus for Elementary Statistics

Math 10-sec 01: ID 01209

Elementary Statistics, Spring 2019

Instructor	Office	Phone	E-mail	Class days/Time	Location	Office Hours*
Neelam R. Shukla	E 37	408- 913- 5225	Shuklaneelam@fhda.edu	MTWThF 7:30 am 8:20 am	G5	MTWThF 8:30 am-9:00 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);
Work Sheets
Ruler, small stapler.

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. **Student may turn in a HW assignment one day late during the quarter. Late HW will be accepted by reducing the credit. 10%**

Exams: 4 exams will be given. **No make-ups are given.** Exams are closed book. Students may bring to the exam one 8 1/2" x 11" page (both sides) of **handwritten** notes (only Formulae), 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 (Formulae only) 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.

Projects Homeworks are due on the due date or next day and next-2 day with **credit reduction.** *They may be turned in earlier, but THEY WILL NOT BE ACCEPTED LATER than three days.*

• **Dates for Exams and quizzes:**

- Exam 1: April 19 Quiz 1: April 12
- Exam 2: May 2 Quiz 2: April 26
- Exam 3: May 31 Quiz 3: May 16
- Exam 4: June 19 Quiz 4: June 7

One least score of quiz and exam will be dropped.

- 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.

8-12 April	Chapter 1 Sampling and Data, Descriptive Statistics group-Quiz 1(chap 1)	
15-19 April	Descriptive Statistics; Probability Topics	Exam 1 (Chap 1,2) LAB 1
22- 26 April	Probability Topics; Discrete Random Variables Quiz 2(Chap 3,4)	
29, 30 April 1-3 May	Continuous Random Variables	Exam 2 (Chap 3,4,5) LAB 2
6-10 May	Normal Distribution; Central Limit Theorem	
13-17 May	Confidence Interval Group Group-Quiz3 (Chap 6,7)	LAB 3
20- 24 May	Hypothesis Testing with One Sample	
27-31 May	Hypothesis Testing with Two Samples	LAB 4 Exam 3 (Chap 7,8,9)
3-7 June	Chi-Square Distribution , Linear Regression and Correlation	Quiz 4(Chap 10)
10- 14 June	F-Distribution and review	LAB 5
17- 21 June	One-Way ANOVA	Exam 4(10,11,12)
24-28 June Final Week	Final Exam	Final Exam: Monday 7-9 am

Important dates: APRIL 8 First day of Spring Quarter

- APRIL 20** Last day to add classes
- APRIL 21** Last day to drop classes with no record of "W"
- May 3** Last day to request "Pass/No Pass"
- MAY 27** **MAMORIAL DAY** - Campus Closed
- MAY 31** Last day to drop classes with a "W"
- JUNE 24-28** Final Exams

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.