DeAnza College
Math 10
Spring 2018

Instructor: Elizabeth Zapata, MS

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Office Hours: Monday/Wednesday 4 – 5:30 pm; or by appointment

Required materials:

Required textbook: Elementary Statistics, Mario F. Triola, 11th Edition
ISBN: 0-321-50024-5

I have posted a pdf copy of the textbook, no need to purchase.

TI-83 or TI-84 Calculator

See general education pages for the requirement this course meets.

Requisites: Not open to students with credit in MATH 10H.

Prerequisite: MATH 114 or equivalent with a grade of C or better; or a qualifying score on the Intermediate Algebra Placement Test within the past calendar year.

Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.

Hours: Five hours lecture (60 hours total per quarter).

Material to Be Covered:

- Basic Statistical Concepts: population, sample, statistical reasoning
- Types of Data: quantitative, qualitative
- Descriptive Statistics: graphical methods (pie chart, bar graph, stem-plot, histogram, scatterplots) and numerical methods (mean, median, mode, percentiles, quantiles, variance, standard deviation)
- Basic Probability Concepts: sample space, outcome, event, probability, additive rule, multiplication rule
- Probability Models: discrete models (binomial), continuous models (normal, t)
- Statistical Inference: confidence level, confidence intervals, statistical significance, hypothesis tests
- Chi-square tests for Independence and Homogeneity, Goodness of Fit
- Linear Regression: correlation, least-squares regression line, hypothesis testing for model significance

You will not succeed in the course if you do not complete the homework and in-class exercises!

Quizzes and Exams: A short quiz will be given approximately every Thursday, there will be three midterms, and a final exam/project.

Approximate Grading Plan:

- Homework: 10%
- Quizzes: 10%
- Midterms: 40%
- Final Exam/Project 40%

Approximate Grading Scale:

- A-, A , A+ = 90% -100%
- B-, B and B+ = 80% to < 90%
- C and C+ = 70% to < 80%
- D and D+ = 60% to < 70%
- F= below 60%

Policy on Make-up Exams: You are expected to take the quizzes and exams at the scheduled times. In case of genuine emergency, illness or hardship, for which you can present written documentation, I may agree to arrange for an alternate exam time. Alternate exam times must always be arranged BEFORE the regular exam is given. ***Quizzes may not be made up!***

Policy on Make-up In-Class Exercises: The in-class Exercises are created for you to practice the problems and become acquainted with the concepts, and how to work the problems in your calculator. There will be an in-class lab activity after approximately every lecture, these are due the day assigned by the end of class. **There will be no late submissions.** Solutions will be posted after the due date. No submissions will be accepted once solutions are posted.

The Policy on Academic Dishonesty will be enforced.

Class Expectations:

Do's and Don'ts

- No talking when the instructor is lecturing. This is disrespectful to me and to your classmates. It is very difficult to hear in our classrooms, conversations add to this difficulty. I am aware if you are talking during lecture. If you do not pay attention, do not expect special consideration from me.
- Do attend class every day.

- Do take notes. I post the guided notes that go hand-in-hand with the powerpoint lectures.
- Do bring questions related to lecture, reading, or homework.
- Do raise your hand when you have a question.
- Do switch off all cellular phones.
- If for some reason you miss class, it is your responsibility to get the notes and announcements from someone who attended lecture that day, so you can catch-up.
- Check Canvas for announcements and changes. Any changes in schedule or content will be posted on Canvas. You are expected to check Canvas frequently and consistently. Lack of knowledge of an announcement will not be accepted as an excuse.
- Cheating will not be tolerated. Copying and sharing your work on a quiz or midterm or final will be considered cheating along with other forms of cheating. If caught cheating all parties involved will be assigned a zero on the respective exam.
- The instructor reserves the right to assign seating during an exam.

MATH 10	Spring 2018
Tentative Schedule: Subject to Change at Instructor's Discretion	
Monday	Wednesday
April 9	April 11
Introduction, Syllabus, Chapter 1	Quiz 1, Continue Chapter 1, Start Chapter 2
April 16	April 18 Sunday, April 22: Drop Date
Finish Chapter 2, Start Chapter 3	Test 1
April 23	April 25
Finish Chapter 3, Chapter 4	Quiz 2, Start Chapter 5
May 7	May 9
Finish Chapter 5, Start Chapter 6	Quiz 3, Finish Chapter 6
May 14	May 16
Begin Chapter 7	Test 2
May 21	May 23
Finish Chapter 7	Quiz 4, Start Chapter 8
May 28	May 30 Last day to withdraw with a W, June 1
Finish Chapter 8, Start Chapter 9	Quiz 5, Finish Chapter 9
June 4	June 6
Chapter 10	Test 3
June 11	June 13
Chapter 10	Chapter 11
June 18	June 20
Review and Catch up	Review for Final Exam
June 25	June 27
Final Exam: 1:45 – 3:45	Final Exam: 4:00 – 6:00

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.