

MATH D010.24.01225

Elementary Statistics

Instructor: Fatemeh Yarahmadi

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Class Location and Time: T/R 1:30 PM-3:45 Online through Zoom (Link is posted on Canvas)

Office Hours: Friday 12-1 Through Zoom (Link is posted on Canvas)

Text: Inferential Statistics and Probability by Geraghty (online). (The online text is free)

Supporting book: Elementary Statistics: Picturing the World, Betsy Farber and Ron Larson

Class Website: Canvas which you can access through MyPortal to check grades, weekly announcements and assignments.

Projects:

1- For Computer Science Majors, we follow Data Mining for Business Analytics: Concepts, Techniques and Applications in Python (9781119549840): Shmueli, Galit.

2- For Non-CS Majors we follow *Minitab* Projects

Projects and Instructions will be posted on Canvas

A graphing calculator. TI-84 or similar. I will be using TI-84 in class for demonstration.

Reading and Writing: Statistics is a concept-heavy subject. While we will do some computations and calculations by hand, we will mostly use technology. The essence of statistics lies in framing a problem in statistical language, collecting and processing data, and interpreting the meaning of results in the context of the original problem. This makes it very different from most math classes! You cannot hope to do well in statistics without a clear understanding of statistical concepts. You will need to keep your focus on both concepts and skills. On labs, quizzes and exams, in addition to correct numerical answers, you will also be graded on your explanations. Practice this carefully and deliberately on your homework and group work, and ask questions whenever you don't understand something.

Sources of Help:

1- Piazza (Online Question and Answer Platform) piazza.com (Code is posted on Canvas)

2- Nettutor: https://www.youtube.com/watch?time_continue=5&v=VlrPU34FzuY&feature=emb_logo

Homework:

Written sets for submission: During the term, I will send out homework sets to be written up and submitted on Canvas. Homework is essential in any math class. You cannot expect to pass the class without putting consistent effort into homework. Show all work and explain any reasoning.

HW Guidelines:

- Write your full name in the top right hand corner of the first page.
- Upload them on Canvas

Discussions: There will be weekly discussion topics posted throughout the quarter. The deadline for responding to the topic will be indicated when the assignment is posted. You may not respond to the discussion once the deadline has passed.

Quizzes: There will be regular online quizzes. The quizzes will be accessible via a link under the appropriate week. You will have a limited amount of time to complete the quizzes and deadlines will be announced in advance.

Projects: Six projects will be assigned throughout the quarter and each will be worth 5 points. Project due dates are indicated on the calendar and Canvas.

Exam Reviews: There will be an exam review assigned before each exam worth 10 points each. The purpose of the review is to aid the student in studying for the exams.

Exams: There will be **three exams** to test your understanding of the concepts from lecture and the homework. They should be straightforward for those who complete and understand the homework. Each exam will be worth 100 points. A total of 300 points will be counted toward your final grade

No make-up exams will be given. If you are forced to miss an exam, you need to contact me **before** the exam with a valid reason.

Final Exam: A comprehensive final exam worth 200 points will be given on the last day of the class.

Grading Policy:

Homework	100 points
Canvas and Pizza Discussions	30 points
Quizzes	(10 @ 8pts) 80 points

Projects	(6 @ 5pts) 30 points
Midterm Review	(3 @ 10pts) 30 points
Midterms	(3 @ 100pts) 300 points
Midterm Corrections	(3 @ 10pts) 30 points
Final	200 points
Total	800

De Anza Final exams schedule: <https://www.deanza.edu/calendar/final-exams.html>

For detailed information on Homework, Quizzes, Projects, Discussion please log into your Canvas course page.

Attendance:

Students may be dropped from the class if they stop participating. I may decide to drop you unless you convince me of your motivation to stay, and your grades support this motivation.

Academic Integrity: All students are expected to exercise high levels of academic integrity throughout the quarter. You are encouraged to work together but you are expected to write up your answers independently. Any instances of cheating or plagiarism will result in disciplinary action, including getting a '0' on the assignment and report to the PSME dean, which may lead to dismissal from the class or the college



Student Honesty Policy: "Students are expected to exercise academic honesty and integrity. Violations such as cheating and plagiarism will result in disciplinary action which may include recommendation for dismissal."

Disability Statement: De Anza College makes reasonable accommodations for people with documented disabilities. Please notify Disability Support Services (DSS) if you have any physical, psychological or other disabilities, vision, hearing impairments or ADD/ADHD. DSS is located in the student community services building, room 141. Phone number: 408-864-8753.



Recipe for Success:

- If you ever have any questions, Email me! You are welcome to send email to me whenever you need help!
- Visit the Online Tutoring Center.
- Form an online study group.
- Watch all lectures, participate in every discussion, and complete every homework assignment.
- Read the sections to be discussed in class prior to the lecture

Spring 2020 Calendar

		Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Week
April			6	7			0	11	1
		12	13	14 Chapter 1	15	16 Chapter 2	17	18	2
		19 Ch 1,2 HW Due	20	21 Chapter 3	22	23 Chapter 4 Quiz 1	24	25 Last day to add class	3
May		26 Ch 3,4 HW Due	27	28 Chapter 5	29	30 Chapter 6 Quiz 2	1	2	4
		3 Ch 5 HW Due	4	5 Chapter 6	6	Midterm 1		9	5
		10 Ch 6 HW Due	11	12 Chapter 7	13	14 Chapter 7 Quiz 3	15	16	6
		17 Ch 7 HW Due	18	19 Chapter 8	20	21 Chapter 9 Quiz 4	22	23	7
		24 Ch 8 HW Due	25 Holiday	26 Chapter 9	27	28 Midterm 2	29	30	8
June		31 Ch 9 HW Due	1	2 Chapter 10	3	4 Chapter 11 Quiz 5	Deadline to drop with "W"	6	9
		7 Ch 10 HW Due	8	9 Chapter 11	10	11 Chapter 12	12	13	10
		14 Ch 11,12 HW Due	15	16 Midterm 3	17	18 Final Review	19	22	11
		21	22	23	24	25	26	27	12
				← F I N A		W E E K →			

Spring 2020 Calendar

		Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Week
April			6	7			0	11	1
	12	13	14	15	16	17	18		2
	19	20	21	22	23	24	25		3
	Ch 1,2 HW Due		Chapter 3		Chapter 4 Quiz 1		<i>25 Last day to add class</i>		
May	26	27	28	29	30	1	2		4
	Ch 3,4 HW Due		Chapter 5		Chapter 6 Quiz 2				
	3	4	5	6			9		5
	Ch 5 HW Due		Chapter 6		Midterm 1				
	10	11	12	13	14	15	16		6
	Ch 6 HW Due		Chapter 7		Chapter 7 Quiz 3				
	17	18	19	20	21	22	23		7
	Ch 7 HW Due		Chapter 8		Chapter 9 Quiz 4				
	24	25	26	27	28	29	30		8
	Ch 8 HW Due	Holiday	Chapter 9		Midterm 2				
June	31	1	2	3	4	5	6		9
	Ch 9 HW Due		Chapter 10		Chapter 11 Quiz 5		Deadline to drop with "W"		
	7	8	9	10	11	12	13		10
	Ch 10 HW Due		Chapter 11		Chapter 12				
	14	15	16	17	18	19	22		11
	Ch 11,12 HW Due		Midterm 3		Final Review				
	21	22	23	24	25	26	27		12
		← F I N A W E E K →							

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.