Math 10-06Z **Elementary Statistics** **Winter 2022**

Instructors NADIA BENSIDI CRN: 35895
Class hours: Monday, Tuesday, Wednesday, Thursday 9:30am-10:30am, online (synchronous) via Zoom (in Canvas). We do not meet on Friday but you will have work to complete on that day.
Office Hours: Monday: 10:30-11:20am, Wednesday: 10:30-11:20am: zoom ID: 958 7457 6761

READ THROUGH THIS ENTIRE SYLLABUS SO THAT YOU ARE FAMILIAR WITH THE CLASS AND ITS MANY DETAILS.
This is a demanding, but rewarding class. If you cannot commit to a minimum of 15 hours per week of study and group work, then you should take this class in a quarter when you have more time to learn. This is also a collaborative class. You will be expected to work with your classmates.

Course Description: Introduction to data analysis making use of graphical and numerical techniques to study patterns and departures from patterns. The student studies randomness with an emphasis on understanding variation, collects information in the face of uncertainty, checks distributional assumptions, tests hypotheses, uses probability as a tool for anticipating what the distribution of data may look like under a set of assumptions, and uses appropriate statistical models to draw conclusions from data. The course introduces the student to applications in engineering, business, economics, medicine, education, the sciences, and other related fields

Prerequisite: Passing grade (C or better) in Intermediate Algebra or placement exam.

Attendance: You are expected to attend all zoom sessions. If you accumulate four absences you will be dropped from the class. Please inform me by email if you are going to be absent and the reason for it.

Text: The textbook for this course is the Introductory Statistics from OpenStax and is available for **FREE** at: http://openstaxcollege.org/textbooks/introductory-statisticsYou can use the book online or download a pdf file.

Related Materials: 1) A graphing calculator is required: TI 84 or TI-84+. You may use a TI83 or TI 83+ if you already have one
2) **You need to print a chapter material course each week, available on Canvas.**

Homework: The Homework is mandatory. The Homework will be available and graded online at WebAssign (http://cengage.com). You will need to purchase a code to access the Webassign homework. The lowest score will be dropped.
The class key is: DEANZA34153173

Quizzes: Quizzes will be online on Webassign or during our zoom meeting on Canvas. The lowest quiz grade will be dropped. No make-ups are given.

Labs: They are activity assignments called labs. They make use of the calculator. You will be working collaboratively with partners. You will upload in canvas one paper per group. No make-ups or late papers will be accepted. You can contact each other in discussion through Canvas.

Project: There is one project worth 50 points. It is a group work. One paper will be turn in (on canvas).

Exams: 3 exams will be given. Some will be on Webassign and some on Canvas during our zoom session. No make-ups are given.

Final Exam:** A two-hour comprehensive exam will be given. If you miss the final exam, you will receive an F for the course.
** The final exam counts as two test exams. Therefore they are like five exams and the lowest exam score will be dropped.

Participation: Here are ways to participate:
• Ask questions during our zoom sessions.
• Participate actively when we do worksheets in breakout rooms. Come prepared, having at least watched the assigned videos and ideally, having read the appropriate textbook sections.
• Participate in weekly discussion boards
• Post and answer questions in chapter discussion boards
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Scanning Your Paperwork:
To upload your paper into Canvas, you need to scan the document, save it in pdf file then upload it. If you do not have a scanner you can use FREE apps on your cell-phone:

CAMSCAN or GENIUS SCAN. (I prefer camscan).

Please do not take picture then save it in pdf file. Start using the apps so you will be comfortable using one of them.

Grades:

Homework	50pts		
Quizzes	120pts	A+:	96% and above A: 89%-95%
Labs	40pts	B+:	86%-88% B: 79%-85%
Project	50pts	C+:	75%-77% C: 68-74%
Exams	100pts	D:	60-67%
Final**	100pts	F:	below 60%
Participation	10pts		
TOTAL:	**470pts**		

Topics to Skip

Ch 3: Venn diagrams
Ch 4: Geometric, Hypergeometric, Poisson Distributions
Ch5: Conditional probability for Uniform distribution
Ch 7: Central Limit Theorem for Sums
Ch 11: Test of variance
Ch 13 Test of two variances

Miscellaneous

All papers turned in must be NEAT to earn full credit.
Your grade is based on points and not a "curve."
We expect you to answer word problems and questions with complete English sentences.

SUDENTS SERVICES

Free Tutoring: I strongly encourage you to utilize this resource. More information can be found here: http://www.deanza.edu/studentsuccess/mstrc/

Disability Support Services: If you need to contact the Disability Support Services, then please contact them as soon as possible. More information can be found here: https://www.deanza.edu/dsps/

Academic Integrity: This is pretty straightforward: Do not cheat on quizzes, exams, or directly copy other student's work. It is not worth getting caught and suffering the consequences. For more information about De Anza College's policy on academic integrity: https://www.deanza.edu/policies/academic_integrity.html

Student Services: This web site leads you to information about financial aid, child care, counseling, academic support, disability support, student activities, and other services that are here for you. The physical location for most of these services is in the Student Community Services Building. http://www.deanza.edu/studentservices

The last day to add is **January 15th 2022**
The last day to drop with no record is **January 16th 2022**
The last day to drop with a W is **February 25th 2022**

This is a tentative schedule. I may need to make some changes.

WINTER SCHEDULE 2022

	MONDAY	TUESDAY	WEDENESDAY	THURSDAY	FRIDAY
SEP	3 Instruction Begins Ch1	4 Ch1	5 Ch1	6 Ch1	**Quiz CH.1** 7 PRACTICE CH1
JAN	10 Ch. 2	11 Ch. 2	1 2 Ch 2	13 Ch. 2	14 **Quiz CH.2** PRACTICE CH 2
JAN	17 **No school** M.L.K	18 Ch. 3	19 Ch 3	20 Ch. 3	21 ***Lab Ch 3*** PRACTICE CH 3
JAN/ FEB	24 **Ch 3**	25 **EXAM 1** **Ch 1, 2, 3**	26 Ch 4 ***Start Project***	27 Ch. 4 ***Lab Ch 3 due***	28 **Quiz Ch 4** PRACTICE CH 4
FEB	31 Ch. 4	1 Ch. 5	2 Ch5	3 Ch. 5/6	**Quiz CH.5** 4 Project Data Check
FEB	7 Ch 6	8 **Ch 6**	9 **Ch 7**	10 Ch. 7	11 **EXAM 2** **CH: 4,5,6,7**
FEB	14 Ch 8	15 Ch. 8	16 Proj. Graph Check Ch. 8	17 ***Lab Ch8***	18 **NO SCHOOL** President day
FEB / MAR	21 **NO SCHOOL** President day	22 Ch. 9	23 Ch. 9 **Project due**	24 **Ch 9**	25 ***Lab Ch 8 due*** PRACTICE CH 9
MAR	28 Ch.9/ 10	1 Ch. 10 **Quiz CH 9**	2 Ch. 10	3 Ch. 10	4 PRACTICE CH10
MAR	7 Ch. 11	8 Ch. 11	9 **EXAM 3** **Ch 8,9,10, 11**	10 **Ch 12**	11 PRACTICE CH12
MAR	14 Ch. 12 **T-H-Quiz CH 12**	15 Ch. 13	16 Ch. 13	17 ***Ch 13*** **Quiz CH 13**	18 **Final Review**
MAR	21	22 **FINAL EXAM** **9:15-11:15 am**	23	**24**	25

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.