DeAnza College

Winter 2021 MATH 010 –36Z MW 4:00 – 6:15 Online

Instructor:	Lin Zhang **Email**: zhanglinlin@fhda.edu **Canvas:** https://deanza.instructure.com/
Zoom MW 4- 6:15PM	https://fhda-edu.zoom.us/j/99244356765?pwd=cUpobDN6Z2t1MURxTk9xRitnTFdFUT09 Meeting ID: 992 4435 6765 Passcode: 2b136m
Text:	Introductory Statistics from OpenStax, WebAssign online HW (Access from **Canvas) $38** www.openstax.org/details/introductory-statistics
Equipment:	**Graphing Calculator is required (**TI 83plus , …) **TI Emulator Apps** For iPhone: GrafNCalc83 (free) For Android: Wabbit EMU (free)
Office Hours:	**TTh 11:30 – 12:30PM or email me for appointments** https://fhda-edu.zoom.us/j/94763822175?pwd=SU53OEN1N01pMWx4SXpRVjdCTFVSdz09 Meeting ID: 947 6382 2175 Passcode: 296326

1. Prerequisite:

Prerequisite: open to all students

2. Course Objective:

- Introduction to **data analysis** making use of graphical and numerical techniques to study patterns and departures from patterns.
- Understanding **variation**, checks **distributional** assumptions, **tests hypotheses**, uses **probability**, and uses appropriate statistical models to draw conclusions from data.
- Introduction to **applications** in engineering, business, economics, medicine, education, social sciences, psychology, the sciences, and those pertaining to issues of contemporary interest.

3. Academic Integrity:

Copying another student's solutions, or using unauthorized materials (online search engine or solution manual) during tests are considered cheating. Violation of this policy will result in the student receiving ZERO credit for the entire assignment or test.

4. Drop Policy:

Attendance is integral to your success in this course. I expect you to attend all class meetings. **It is always YOUR RESPONSIBILITY to drop** the class if you feel like you can't continue for any reason.

5. Support Services

Students with disabilities needing reasonable accommodations should inform me in the beginning of the quarter. To begin the reasonable accommodations process, I will need to fill out a request form from the Disabilities Support Services (DSS). For more information, please visit the DSS office at SCSB 141, call (408) 864-8753 /(408) 864-8748 TTY, or go to www.deanza.edu/dss.

6. Tutoring

The Math, Science, and Technology Resource Center **(S43)** provides free individual and small group drop-in services. For their online schedule go to www.deanza.edu/studentsuccess/mstrc.
You can also use "NetTutor" link on the navigation in Canvas or attend my office hour. Email me for appointments if you want to meet at alternative time.

7. Grade:

All grades will be posted on Canvas as soon as they become available. It is your responsibilities to check Canvas at least once a week to monitor your grades for the class.

16 In Class (drop 2)	70 Points	
11 Homeworks	100 Points	**A:** 90-100%
11 Discussions	20 Points	**B:** 80-89%
5 Projects	40 Points	**C:** 70-79%
4 Exams	400 Points	**D**: 60–69%
Final Exam	100 Points	**F:** 0-59%
Total	730 Points	

In Class Participation

In Class practice will be given at each class meeting. It's 5 points each day where 2 points are class attendance and 3 points of submissions of practice problems to Canvas before deadline. On the day of absence, you can still complete the problems (watch lesson videos to find out inclass problems) and get back up to 3 points. Two lowest scores will be dropped at the end of the term.

Homework:

The purpose of homework is to help you learn the material in the course. Homework assignments are available on WebAssign, but you need to access it through Canvas so your accounts can be linked together.

Each homework set will be scaled to 10 points and the lowest one can be dropped. You can request for HW extension through WebAssign. Everyone gets total of 5 days extensions without penalty. After that there is a 5% penalty on each extension day. If a HW is due on 1/12, request to extend it until 1/15 counts as 3 day extension.

Discussions:

There will be 11 discussion topics corresponding to the 11 homework assignments. Each discussion is 2 points each. You need to make 2 posts to get the full credit. You are encouraged to ask questions (from HW or lessons) on the discussion board. You can post a solution to a question. If you don't have questions, you can also share an idea, a song or an article.

Projects

Five 10**-point** projects will be given through out the semester. Some of them are group projects while some are done individually. Please see Canvas for more details. The lowest one will be dropped. No late work will be accepted.

Exams:

Four 100-point exams will be given. If you have to miss an exam under extreme circumstances, please notify the teacher in advance. You can't drop any tests. There will be test correction opportunities after the first three tests. I will explain it on a separate file or email.

Final Exam:

A two-hour comprehensive final exam will be given. A student who misses the final exam and does not contact the instructor will receive an F in the course.

8. Class Calendar

Week	Month	Monday	Wednesday	Notes
1	**January**	4 Ch 1 Sampling	6 Ch 2 Desc Statistics	
2	**January**	11 Ch 2 Desc Statistics	13 Ch 3 Probability	**Sat. Jan. 16h** last day to add. **Sun. Jan. 17th** last day to drop with no record.
3	**January**	18 **MLK Holiday**	20 Ch 3 Probability	
4	**January**	25 **Test 1** (Ch 1 & 2)	27 Ch 3 Probability Ch 4 Discrete Var.	**Friday, Jan. 29th** last day to request P/NP.
5	**February**	1 Ch 4 Discrete Var.	3 Ch 5 Continuous Var Ch 6 Normal Dist	
6	**February**	8 Ch 6 Normal Dist.	10 **Test 2** (Ch 3, 4 & 5)	
7	**February**	15 **President's Holiday**	17 Ch 7 Central Limit	
8	**February**	22 Ch 8 Confidence Interval	24 Ch 9 One Sample Testing	**Friday, Feb. 26th:** last day to drop with a "W".
9	**March**	1 **Test 3** (Ch 6, 7 & 8)	3 Ch 10 Two sample Testing	
10	**March**	8 Ch 11 Chi-Square Distribution	10 Ch 12 Linear Reg	
11	**March**	15 Ch 13 F Distribution	17 **Test 4** (Ch 9-12)	

12	**March**	22 No School	24 **Final Exam** **4:00 – 6:00 PM**	

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.