Math 10-64Z Introductory Statistics De Anza College Fall 2024

CLASS MODE: 100% asynchronous
Canvas Course: Will be open to view on first day of class, Monday 9/23. All materials and assignments for this course are available on Canvas week by week. Materials and assignments of each week will be open on the beginning of each week, which is Monday.

Instructor: Vinh Kha Nguyen
How to contact instructor: nguyenvinh@fhda.edu or Canvas Inbox the instructor (preferably)
Allow the instructor 24 hours to reply to a canvas inbox message or an email or a comment made on canvas.
Allow the instructor 72 hours to grade and comment on the exams and other assignments after its due date.

Office hours: M,W 11:30-12:20pm in S-55
T 11:30-12:20pm in S-74D
Th 11:30-12:20pm on Zoom (see Canvas course for zoom link)

Textbook: Introductory Statistics by Barbara Illowsky and Susan Dean on Openstax (free)
https://openstax.org/details/books/introductory-statistics

Required software: StatCrunch program ($14.99 for 6 months)
https://www.statcrunch.com/register/student

Grade is composed of homework, quizzes, discussions, exams, and final.

0-59.99% F	70-76.99% C	80-82.99% B-	90-92.99% A-
60-69.99% D	77-79.99% C+	83-86.99% B	93-100% A
		87-89.99% B+	

homework	quizzes	discussions	Group project	exams	final	total
50pts	110pts	60pts	60pts	120pts	100pts	500pts

Homework: each chapter hw and due date are posted on the course Canvas Grade tab. *Late homework gets 0pts regardless of excuses.* ***Student must submit hw on Canvas using the Grades tab by its due date to get credit.***
Quizzes: each chapter quiz and due date are posted on the course Canvas Grade tab. *Missed quiz gets 0pts regardless of excuses.*
Discussions: discussion and due date are posted on the course Canvas Grade tab. *Missed discussion gets 0pts regardless of excuses.*

Group Project: project due date is posted on the course Canvas Grade tab. *Missed project gets 0pts regardless of excuses.*
Exam: each exam date is posted on the course Canvas Grade tab. *Missed exam gets 0pts regardless of excuses.*
Final: comprehensive and given on a specific date during final week. There is no make-up for final exam.

If you notice that the instructor made an error on the grading, you are responsible to inform the instructor within a week of the date of the exam/quiz. Otherwise, your score on the exam/quiz will be unchangeable.

Makeup Policy: No makeup quizzes or exams are available. Student must notify the instructor in advance of a missed quiz or a missed exam to use the following makeup policy.

Only 1 missed quiz due to an excused absence or emergency will be covered by the next quiz.
Only 1 missed exam due to an excused absence or emergency will be covered by the final exam (equivalent percent).

Exam procedure/policy:
- Each exam is 60 minutes, and there is no dropping lowest exam score.
- The Final Exam is 2 hours. (see course calendar for detail)
- Make sure you have fully studied and prepared before you take each exam. (see Canvas Modules for outlines)
- **All exams and final exam must be taken on Canvas.**
- **No partial credit shall be given on questions what do not require proof of show-work.**

Academic Integrity: Students will get 0 on the related assignments if:
- Cheat on exams and assignments
- Copy other's work as their own
- Alter work on exam/quiz after it has been graded to deceive the instructor
- **Uploading/sharing instructor's exams or a part of the exam online for others to view will result in a failing grade.**

Repeated academic dishonesty will result in a failing grade in the course. Moreover, all academic dishonesty instances will be reported to the college!

Time Commitment: As stated in the De Anza College course catalog, students are expected to spend at least 5 hours each week to read the lecture notes and the textbook, do all examples in lecture notes, and check answers. Students are also expected to spend at least 10 hours each week to study for quizzes and exams and do homework. Students may want to spend extra hours watch other Youtube videos for more examples. This asynchronous course requires serious self-discipline and time-management to succeed.

Grade improvement: This class is rigorous, so it can be fast-paced and challenging quite often during the quarter. The only way to build confidence is through practice and more practice. Other strategies to improve grade: take detailed note during lecture, ask questions when in doubt, work with classmates during group work, form study group, do hw sooner than later, seek help when need help, understanding rather than memorizing, prioritize tasks, do not multi-tasking while studying, etc.
If you are interested in improving your grade, please spend time to study and do the homework.

Campus tutoring, additional assistance, and Internet resources:

- On campus tutoring in S43: https://www.deanza.edu/studentsuccess/mstrc/
- Online tutoring: https://www.deanza.edu/studentsuccess/onlinetutoring/
- Student's services: https://www.deanza.edu/services/
  Disability Support Service, EOPS, Veterans, CalWORK, Foster Youth, Food Pantry, Health Service, etc.
- The Internet: Youtube lecture video, Khan Academy, etc.

Students Responsibility:

- Read the syllabus word by word and honor the syllabus.
- Collaborate with classmates and the instructor during group discussions and group project.
- Do and submit all assignments on time.
- Read textbook for more examples.
- Behave as educated and civilized individual, to be hold accountable for your actions.

Attendance: Students are expected to attend all class meetings, arrive on time, take note, and stay for the entire class. The instructor reserves the right to drop/withdraw students who are absent more than five lectures during the quarter. Moreover, **showing up after roll call is counted as one late. Two lates = 1 absence.**

Withdrawal/Drop Policy: It is the ultimate responsibility of the student to drop the class. Do not rely on the instructor to drop. A student who stops coming to class, stops working on assignments, and fails to withdraw by the deadline will get a grade FW.

Expected Student Conduct: A student who is disruptive will be asked to leave the class. A student who refuses to leave the room will be dropped from the class and will be reported for further action. During the quarter, if you have any questions about the course policies, you will be first referred to this syllabus. Please make sure you keep a copy. You can find Foothill-De Anza College Code of Conduct at https://www.deanza.edu/student-development/conduct.html

Accommodation: Students who need additional accommodation, due to learning disability or some other reason, please contact the instructor during the first two weeks of class to discuss your options. Disability Support Services determines accommodations based on appropriate documentation of disabilities. DSS is located in Student Community Services building room 141, and their phone number is (408) 864-8753.

All students registered for this course will be expected to uphold the following values:
We strive to establish a class atmosphere that is welcoming and inclusive so that students may bring their authentic selves and work to reach their potential. We recognize the value and individuality that each student brings – our learning experience becomes all the richer when we hear from different perspectives. As such, we support all students equally, without regard to race, color, religion, gender, gender identity or expression, sexual orientation, national origin, genetics, disability, age, or veteran status.

Course description: This course is an 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. Students will learn how to use technology to analyze data and will explore applications in many different fields.

Course SLOs: Upon successful completion of the course, students will be able to:

- 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.

Tentative Course Calendar (students are responsible to check Canvas daily for assignments and due dates)

Week1 9/23-9/29
- Ch1 Data and Sampling
- Ch1 quiz, discussion#1, ch1 hw, Syllabus and Canvas quiz due by Sunday

Week2 9/30-10/06
- Ch2 Descriptive Statistics
- Ch2 quiz, discussion#2, ch2 hw due by Sunday

Week3 10/07-10/13
- Ch3 Probability
- Ch3 quiz, discussion#3, ch3 hw due by Sunday

Week4 10/14-10/20
- **Exam#1 on Monday 10/14**
- Ch4 Discrete Random Variable and Ch5 Continuous Randon Variable
- Ch4 quiz, discussion#4, ch4 hw due by Sunday

Week5 10/21-10/27
- Ch6 Normal Distribution and Ch7 Central Limit Theorem
- Ch6-7 quiz, discussion#5, ch6-7 hw due by Sunday
- **Group project** (assigning groups, students are expectd to work on group project throughout the quarter)

Week6 10/28-11/03
- Ch8 Confidence Interval
- Ch8 quiz, discussion#6, ch8 hw due by Sunday

Week7 11/04-11/10
- **Exam#2 on Monday 11/04**
- Ch9 Hypothesis Test with One Sample
- Ch9 quiz, discussion#7, ch9 hw due by Sunday

Week8 11/11-11/17
- Ch10 Hypothesis Test with Two Samples
- Ch10 quiz, discussion#8, ch10 hw due by Sunday

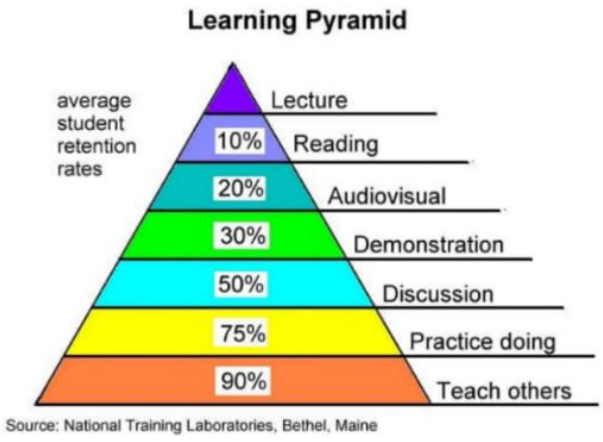
Week9 11/18-11/24
- Ch11 The Chi-Square Distribution
- Ch11 quiz, discussion#9, ch11 hw due by Sunday

Week10 11/25-12/01
- Ch12 Correlation and Linear Regression
- Ch12 quiz, discussion#10, ch12 hw due by Sunday

Week11 12/02-12/08
- Ch13 One-Way ANOVA and the F-distribution
- Discussion#11 due by Sunday, last week to work on group project

Week12 12/09-12/12
- **Final exam on Monday**
- **Group Project due on Monday**

10/06 Last day to add/drop a class without W
10/07 Census
11/15 Last day to drop a class with W



Math 10 Homework
(see Canvas for due date, scan and upload files in .pdf format)

- Homework is graded on completeness and neatness, see tentative course calendar for due date.
  - Must show work for each problem. Hw without show work will be -1pt.
  - Submit one file per homework. If not, hw will be -1pt.
  - Name each file to match with the hw description. If not, -1pt.
  - Deduct points from each missing problem depending on the amount of problems in each hw.
- Why should students care about showing work?
  - **Practice makes confidence**
  - **Help to prepare for quizzes and exams**
- Students are responsible to do all homework and submit the work on time,
  - Late hw gets a solid 0pt, so do not submit late hw.

NOTE: To scan and upload hw on Canvas with your phone, I recommend the free Adobe Scan app.
It is ok to write your hw on an ipad or tablet and convert it to .pdf files to upload on Canvas.

Ch1 Hw do all problems on Ch1 hw worksheet (5pts)

Ch2 Hw do all problems on Ch2 hw worksheet (5pts)

Ch3 Hw do all problems on Ch3 hw worksheet (5pts)

Ch4 Hw do all problems on Ch4 hw worksheet (5pts)

Ch6-7 Hw do all problems on Ch6-7 hw worksheet (5pts)

Ch8 Hw do all problems on Ch8 hw worksheet (5pts)

Ch9 Hw do all problems on Ch9 hw worksheet (5pts)

Ch10 Hw do all problems on Ch9 hw worksheet (5pts)

Ch11 Hw do all problems on Ch11 hw worksheet (5pts)

Ch12 Hw do all problems on Ch12 hw worksheet (5pts)

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 evaluate conjectures, and communicate the results of random data using statistical analyses such as interval and point estimates, hypothesis tests, and regression analysis.

Office Hours:

T	11:30 AM	12:20 PM	In-Person	S-74D
TH	11:30 AM	12:20 PM	Zoom	
M,W	11:30 AM	12:20 PM	In-Person	S-55