

Syllabus – Math 10: Introductory Statistics

****Instructor:**** Dr. Seyed Yashar Zaheriani

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****Office Hours:**** Thursdays, 8:00 – 9:00 AM (via Zoom) – or by appointment

****Class Schedule:**** Monday/Wednesday , 11:00 – 13:15 AM

****Textbook:**** Introductory Statistics, 2nd edition, OpenStax
Room: E33

Course description

This course introduces the fundamentals of data analysis using graphical and numerical techniques to study patterns and randomness. Topics include:

- Understanding variation and uncertainty
- Collecting and interpreting data
- Testing distributional assumptions and hypotheses
- Using probability to predict outcomes
- Applying statistical models to real-world problems

Applications will be drawn from engineering, business, economics, medicine, education, social sciences, and contemporary issues. Technology such as graphing calculators and computers will be integrated into coursework.

Pre-requisites

Intermediate Algebra or higher, or appropriate placement beyond intermediate algebra.

Textbook

Introductory Statistics by Barbara Illowsky and Susan Dean, ISBN: 978-1-938168-20-8

NOTE: This textbook is available to download for free (online or PDF) on:

<https://openstax.org/details/books/introductory-statistics> **Required Materials**

- Calculator: TI-83+ or TI-84 (required for labs and projects)
- Instructions for calculator use will be provided in lessons and linked tutorial videos
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Homework and Projects(Labs)

Homework and projects are a core part of this course:

- Assigned regularly based on class progress
- Help clarify ideas introduced in lectures and prepare for quizzes/exams
- Group collaboration encouraged . Labs use TI graphing calculators and may be completed individually or in groups Submit via Canvas (PDF/photo) or by email. No late labs accepted.

Attendance and participation

Attendance is expected at all sessions. Students are responsible for catching up on missed material. Participation is essential, both in class and through group collaboration.

Learning Goals

By the end of this course, you should be able to:

1. Define and explain key statistical terms
2. Correctly apply concepts and procedures to real-world problems
3. Break complex problems into manageable parts
4. Combine concepts in new ways to solve unfamiliar problems
5. Compare and evaluate statistical information
6. Develop confidence in mathematical learning by reasoning, questioning, and problem solving (not memorization alone)

Course Policies

1. No late work accepted under any circumstances
2. No make-up quizzes or exams
3. All submissions must be in PDF format via Canvas
4. Students are responsible for keeping up with class progress and practice
5. Instructor reserves the right to update the syllabus (announcements via Canvas)
6. Grades are not discussed via email (schedule Zoom meetings instead)
7. Class is synchronous; lectures are not recorded
8. Students must arrange study groups and review missed materials themselves
9. All questions are welcome office hours are for your success
10. Students must keep track of academic calendar dates

Tips for Success

- Learn concepts, don't just memorize formulas
- Read problems carefully, strategize before solving
- Don't fear mistakes – persistence is key
- Spend at least 2 hours of study per lecture hour outside of class

Academic Integrity

Cheating or plagiarism results in a failing grade and will be reported. Minimum penalty: zero on assignment/exam.

Refer to: <http://www.deanza.edu/studenthandbook/academic-integrity.html>

Grading

Homework: 20%

Attendance: 5%

Quiz 1: 5%

Quiz 2: 5%

Quiz 3: 5%

Mid.:30%

Final Exam: 30%

Letter Grades:

A: 94–100%

A-: 90–93%

B+: 87–89%

B: 84–86%

B-: 80–83%

C+: 77–79%

C: 74–76%

C-: 70–73%

D+: 67–69%

D: 64–66%

D-: 60–63%

F: below 60% Disability Support Services (DSS)

De Anza College supports students with disabilities and provides reasonable accommodations. Contact DSS (RSS Building, Suite 141 | 408-864-8753 | DSS@deanza.edu).

Website: <https://www.deanza.edu/dsps/>

Additional Student Support

- Student Success Programs: <http://deanza.edu/studentsuccess/>
- Financial Aid Info: <http://www.deanza.edu/financialaid/>
- Installment Payment Plans: http://deanza.edu/cashier/installment_plan.html
- Scholarships: <http://deanza.edu/financialaid/types/scholarships.html>
- Basic Needs Resources: <https://www.deanza.edu/resources/>

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:

Zoom	M,W,TH	1:30 PM - 3:45 PM
Village in campus	F	8:30 AM - 9:30 AM