STAT C1000: Introduction to Statistics - Winter 2026

Section 21 (CRN 39483)
Meeting Times: Monday & Wednesday, 1:30 AM–3:45 PM
Location: G1

Instructor: Jelena Segan
Email: seganjelena@fhda.edu
Office Hours: Monday 11:00–12:00 and Wednesday 11:00–12:00 in S 55
Response Time: I will respond within 24 hours Mon–Fri. If you do not hear back after 24 hours, please resend.

Course Description

This course is an introduction to data analysis making use of graphical and numerical techniques to study patterns and departures from patterns. We study randomness with an emphasis on understanding variation, collect information in the face of uncertainty, check distributional assumptions, test hypotheses, use probability as a tool for anticipating what the distribution of data may look like under a set of assumptions, and use appropriate statistical models to draw conclusions from data. Applications include engineering, business, economics, medicine, and education.

Student Learning Outcomes (SLOs)

By the end 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.

Textbook & Required Materials

- *Introductory Statistics* (OpenStax), Barbara Illowsky and Susan Dean (Free): OpenStax link.

- Graphing calculator (TI-83/TI-84 or similar) or a reliable statistics calculator/app (as allowed by your instructor).
- Computer/smartphone for Canvas, online homework/quizzes, and course communication.
- Notebook for class notes and worked problems.

Prerequisites

MATH 114 or equivalent. Not open to students with credit in MATH 10H. Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.

Canvas

All class content, assignments, and announcements will be on Canvas (via MyPortal). The course will be organized in weekly modules. The schedule may be updated as needed; changes will be announced in class and on Canvas.

Expectations (How to succeed)

- Complete all homework and practice consistently.
- Preview each lesson (10–15 minutes) before class.
- Review notes the same day.
- Attend office hours when you feel stuck.
- Form study groups (but write up your work independently).
- Read the textbook explanations and examples.

Attendance & Participation

Participation matters because we practice together, discuss solutions, and build concepts step-by-step. Please attend class regularly and stay on schedule in Canvas. If you miss class, you are responsible for catching up.

Homework (Written sets)

Homework is essential in statistics. Assignments will be posted on Canvas. Unless stated otherwise, homework is due Mondays at 11:59 PM on Canvas or in person.

Homework Guidelines

1. Show your work clearly and neatly.
2. Put your name, course, and section at the top of your submission.
3. Do problems in order; circle final answers.

Quizzes

Short quizzes will be given in in class after major topics. The lowest quiz score may be dropped.

Discussion / Participation Activities

There may be short discussion prompts or participation tasks on Canvas (individual work, small group work, or reflection questions).

Project (Data Investigation)

You will complete one project using real data (individual or small group). Details and rubric will be posted on Canvas.

Exams

Winter is fast-paced. Plan ahead.

- Midterm Exam 1 (in class; date posted on Canvas)
- Midterm Exam 2 (in class; date posted on Canvas)
- Final Exam (comprehensive; date/time set by the college; posted on Canvas)

Make-up Policy

No make-up quizzes or exams. If there is a documented emergency, I may replace a missing midterm score with the corresponding portion of your final exam score.

Tutoring & Support

Student Success Center tutoring: `https://www.deanza.edu/studentsuccess`
Online tutoring options may be available through Canvas/MyPortal.

Grading (Tentative Points)

Homework	100 pts
Quizzes (drop 1)	40 pts
Participation / Discussions	30 pts
Project	50 pts
Midterm Exam 1	100 pts
Midterm Exam 2	100 pts
Final Exam	150 pts
Total	570 pts

Letter Grades (by percent)

A: 94.5–100% A-: 89.5–94.49% B+: 86.5–89.49% B: 83.5–86.49% B-: 79.5–83.49% C+: 74.5–79.49% C: 69.5–74.49% D+: 66.5–69.49% D: 63.5–66.49% D-: 59.5–63.49% F: below 59.5%.

Academic Integrity

You may work with classmates, but your submitted work must be your own. Cheating or plagiarism may result in a zero and a report to the dean, and could lead to further disciplinary action.

Disability Support Services (DSS)

If you have approved accommodations through DSS, please ensure they are authorized for this quarter. If you need accommodations, visit `https://www.deanza.edu/dss`.

Syllabus Changes

This syllabus is subject to change at the instructor's discretion. Any updates will be announced in class and on Canvas.

Tentative Course Schedule (Subject to Change)

Winter quarter is fast-paced. Staying on schedule is essential.

Week	Monday	Wednesday
1	Course orientation; questions; introduction to statistics	Descriptive statistics
2	Descriptive statistics	Descriptive statistics / Quiz 1
3	**Holiday (MLK Jr. Day – no class)**	Probability
4	Discrete probability distributions	Discrete probability distributions / Quiz 2
5	Normal probability distribution	Normal probability distribution / Exam 1
6	The Central Limit Theorem	Confidence intervals
7	**Holiday (Presidents' Day - no class)**	Confidence intervals
8	Hypothesis testing with one sample	Hypothesis testing with one sample / Quiz 3
9	Hypothesis testing with two samples	Hypothesis testing with two samples / Exam 2
10	Hypothesis testing with two samples; Start project	Chi-square tests and the F-distribution
11	Correlation and regression	Final Review / Quiz 4
12		Final Exam, Wednesday 7 AM - 9 AM

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• 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:

S 55 M,W 11:00 AM - 12:00 PM