

**Math 10.39(CRN: 27538)**

**Fall 2023**

**Statistics**

**Room:** MLC 103

**Instructor:** Parviz Sales

**Phone:** (408) 342-4291

**Email:** [psales@mitty.com](mailto:psales@mitty.com)

**Office hours:** 6:15-6:45 Mon. & Wed. Room: MLC 103.

**Prerequisite:** Passing grade (C or better) in Intermediate Algebra (Math 114) or equivalent.

**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.

**Student Learning objectives(SLO's):**

1. 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.
2. Identify, evaluate, interpret and describe data distributions through the study of sampling distributions and probability theory.
3. 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.

**Textbook & Relate Materials:** Statistics Labs and Study Guides (Canvas download). TI 83, or TI 84 Graphing Calculator (Required). Collaborative Statistics, by Illowsky / Dean (Optional) which is a free download from the url: [www.cnx.org/content/col10522/latest/](http://www.cnx.org/content/col10522/latest/).

**Attendance:** Success in the class requires regular and consistent attendance. I will only drop students on the first night of class as no shows to make room for the waitlisted students, after which students have complete responsibility for withdrawing from the course for any and all their reasons. The last day to drop the class with a "W" is November 17<sup>th</sup>. Students who don't withdraw in a timely manner and stop attending class will receive a final grade of "F".

**Laboratory:** There are 12 lab assignments(Canvas download). These are assigned randomly during the quarter. All the labs will be worth as 120 points. Late Lab Assignment will not be accepted.

**Homework:** There are 5 homework assignments(Canvas download). These are assigned randomly during the quarter. All the homework will be worth as 50 points. Late Assignment will not be accepted.

**Assessments:** There will two quizzes, each 25 points and two tests, each of those 100 points. There will be no make-up for missed assessment, as I cannot accommodate that. Nonetheless in the unfortunate event of an absence, I will duplicate your final grade for only one missed assessment. Final Exam will be comprehensive and worth 105 points. Final Exam is mandatory and not taking it translates to a final quarter grade of "F". (Department policy.) Final Exam will

be given on Thursday, 12-13 @ 4:00 p.m. Please don't ask for an early final, as I won't be able to accommodate that. Thanks.

**Grading:** Your quarter grade will be determined with the following scale:

|            |    |           |    |               |    |
|------------|----|-----------|----|---------------|----|
| 97% - 100% | A+ | 93% - 96% | A  | 90% - 92%     | A- |
| 87% - 89%  | B+ | 83% - 86% | B  | 80% - 82%     | B- |
| 77% - 79%  | C+ | 70% - 76% | C  | 67% - 69%     | D+ |
| 63% - 66%  | D  | 60% - 62% | D- | 59% and below | F  |

**Study partner #1 contact information:** \_\_\_\_\_

**Study partner #2 contact information:** \_\_\_\_\_

**Study partner #3 contact information:** \_\_\_\_\_

**Study partner #4 contact information:** \_\_\_\_\_

**Tutoring Services:** The De Anza campus has a tutorial center for math students where students can get "drop in" help. Students can also register to have a regular, assigned tutor for help throughout a quarter. For relevant information go to: <https://www.deanza.edu/studentssuccess/>

### *Tentative Schedule for Math 10, Fall 2023*

|   | <b>Tuesday</b>             | <b>Thursday</b>           |
|---|----------------------------|---------------------------|
| <b>September</b>                              | <b>26</b><br>Chapter 1     | <b>28</b><br>Chapter 2    |
| <b>October</b>                                | <b>3</b><br>Chapter 3      | <b>5</b><br>Chapter 3     |
| <b>October</b>                                | <b>10</b><br><b>Quiz 1</b> | <b>12</b><br>Chapter 4    |
| <b>October</b>                                | <b>17</b><br>Chapter 4     | <b>19</b><br>Chapter 5    |
| <b>October</b>                                | <b>24</b><br><b>Test 1</b> | <b>26</b><br>Chapter 5, 6 |
| <b>October</b><br><b>/</b><br><b>November</b> | <b>31</b><br>Chapter 6     | <b>2</b><br>Chapter 7     |

|                 | <b>Tuesday</b>                    | <b>Thursday</b>                                    |
|-----------------|-----------------------------------|--|
| <b>November</b> | <b>7</b><br>Chapter 8             | <b>9</b><br><br><b>Quiz 2</b>                      |
| <b>November</b> | <b>14</b><br>Chapter 9            | <b>16</b><br>Chapter 9                             |
| <b>November</b> | <b>21</b><br>Chapter 10           | <b>23</b><br>Thx-giving Holiday<br>No Class        |
| <b>November</b> | <b>28</b><br>Chapter 12           | <b>30</b><br>Chapter 11<br><b>Test 2</b>           |
| <b>December</b> | <b>5</b><br>Chapter 13            | <b>7</b><br><br><b>Final review</b>                |
| <b>December</b> | <b>12</b><br><br><b>No class.</b> | <b>14</b><br><b>Final Exam</b><br><b>6:30 p.m.</b> |

**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:**

|      |          |          |           |         |
|------|----------|----------|-----------|---------|
| M,W  | 06:15 PM | 06:45 PM | In-Person | MLC 103 |
| T,TH | 08:45 PM | 09:15 PM | Zoom      |         |