

**Math 10.Q01**(CRN: 45431)

**Spring 2024**

**Statistics**

**Room:** MLC 112

**Instructor:** Parviz Sales

**Office hours:** 6:15 – 6:45 p.m., Mon., Wed. & Thur., Room: MLC 112

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

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

**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). Introductory Statistics, by Illowsky / Dean (Optional) which is a free download from the url: <https://openstax.org/details/introductory-statistics>

**Attendance:** Success in the class requires regular and consistent attendance. 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 May 31<sup>st</sup>. Students who don't withdraw in a timely manner and stop attending class will receive a final grade of "F".

**Laboratory:** There are 14 lab assignments(Canvas download). These are assigned randomly during the quarter. All the labs will be worth as 140 points. Late Lab Assignment will not be accepted.

**Homework:** There are 6 homework assignments(Canvas download). These are assigned randomly during the quarter. All the homework will be worth as 60 points. Late Assignment will not be accepted.

**Assessments:** There will three 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 the 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 Wednesday, 6-26 @ 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

**Some notes about success in this class:** Students are expected to show for all classes on Monday, Wednesday, and Thursday. That is where the action is, so-to-speak. There will be instruction, followed up with examples, data sharing and data collection to complete labs. Additionally, all assessments will go down during class time. Students are expected to have a hardcopy of the packet or the downloaded version on a tablet, so they can annotate and follow along. Students are expected to stay active during the sessions and attempt the problems during class. This is not a spectator sport, and you won't learn by "watching". As the saying goes: I will take a wrong answer / attempt over no attempt and no answer. You need to have your calculator on the daily. There will be no posting of lectures and notes online, as I am technologically challenged. Sorry. I recommend and facilitate study partners. Here we go...

**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, Spring 2024*

	Monday	Wednesday
April	8 Introduction, Chapter 1	10 Chapter 2
April	15 Chapter 3	17 Chapter 4
April	22 Chapter 4, Quiz 1	24 Chapter 5
April / May	29 Chapter 6	1 Chapter 7
May	6 Test 1	8 Chapter 8
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	<b>Monday</b>	<b>Wednesday</b>
<b>May</b>	<b>13</b> Chapter 8	<b>15</b> Chapter 9
<b>May</b>	<b>20</b> Chapter 10	<b>22</b> Chapter 10 cont., <b>Quiz 2</b>
<b>May</b>	<b>27</b> <b>Memorial day holiday. No class.</b>	<b>29</b> Chapter 12
<b>June</b>	<b>3</b> Chapter 13	<b>5</b> <b>Test 2</b>
<b>June</b>	<b>10</b> Chapter 13 cont.	<b>12</b> <b>Quiz 3</b>
<b>June</b>	<b>17</b> Anova	<b>19</b> <b>Juneteenth holiday. No class.</b>
<b>June</b>	<b>24</b> <b>No Class</b>	<b>26</b> <b>Final Exam @4:00 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 112
TH	06:15 PM	06:45 PM	In-Person	MLC 112