

Math 10: Introductory Statistics, Spring 2020
Tuesday/Thursday, 6:30 – 8:45 pm on Zoom

Instructor: Matthew Lee

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Office Hours: Online on Zoom, by email appointment

Required Materials:

- 1) The online textbook at <https://openstax.org/details/books/introductory-statistics>
- 2) Internet and computer, with access to Google Sheets.
- 3) Notebook, paper and writing tools (graphing calculator optional)

About the Course: Statistics is a mathematical science, and while there are some computations and formulas, these days technology handles most of that. The bulk of the subject lies in the concepts – using statistical language, collecting and processing data, and interpreting results. As a result, you will be doing a lot of *writing* in this course. You will be graded on your explanations as well as numerical answers. Use homework and class to practice this, and please ask questions if you don't understand something!

About the Textbook: Our online textbook, Introductory Statistics, was developed by De Anza faculty and it will be our primary resource for homework and projects, as well as reading.

We will not be able to cover 100% of the material in the book during our class time. As such, it is your responsibility to READ each section as needed. I encourage you to read sections more than once, as well as take notes. Any of the material in the textbook is fair game.

Course website: Canvas will be the main hub of information for the course. All course materials will be uploaded and made available as the course progresses, and you will submit most of your assignments through Canvas.

Since our class is online, it is YOUR responsibility to check Canvas often and keep up with course material, announcements, quizzes, and other assignments. You must develop a good habit of checking Canvas regularly if you plan to succeed not only in our class, but your other classes at De Anza as well.

Grades: We will use a standard letter grading system (97-100 A+, 93-96 A, 90-92 A-, etc).

<i>Weekly Homework</i>	15%	<i>Online Quizzes</i>	10%
<i>Labs/Projects</i>	25%	<i>Participation and Reflections</i>	20%
<i>Final Exam</i>	30%		

Weekly Homework: There are weekly homework assignments, which will use the textbook and are due every *Tuesday* by midnight on Canvas. They will be graded for completeness and correctness. Expect to spend multiple hours per week on problems.

Homework is 15% of your grade. The lowest 2 scores will be dropped.

Labs and Projects: Statistics is about gathering and analyzing data. Every couple of weeks, you will do a small project or lab activity that demonstrates a statistical concept and practices statistical software, most often Google Sheets. These will be submitted on Canvas.

Projects are worth 25% of your grade. Late projects will be accepted for partial credit depending on when it is submitted.

Online Quizzes: We will have TIMED quizzes on Canvas every few weeks. These will be posted on Canvas with a due date. You are welcome to use your notes, but be wary of the time.

Quizzes are 10% of your grade. If you miss or plan to miss a quiz, let me know ASAP.

Participation and Reflection: Throughout the course, I will ask survey questions on Canvas. This will contribute to the data we use for our projects and other activities. There will also be short reflections due at the end of every week where you have the opportunity to share your thoughts about what we are learning and what you need additional support on. Since this is an online class, it is vital you do these reflections so that I get a sense of how the class is doing and what needs you have. Finally, there will be chapter review problem sets throughout the quarter. These will be graded for completeness and count as participation.

Final Exam: The final exam will be cumulative and is scheduled for *Thursday, June 25th from 6:30 pm to 8:30 pm*. It will be a take home exam and you will submit it on Canvas. More details will be given closer to the exam date.

The final exam is 30% of your grade. There will be no makeup exam.

Academic Integrity: All students are expected to exercise high levels of academic integrity throughout the quarter. As this is an online class, you are more responsible than ever for your own learning – cheating and plagiarism only hurt your own learning experience, and will not be tolerated.

Disability Notice: If you have any special circumstances that you feel may influence your performance in this class (a diagnosed learning disability, physical disability, or anything at all that might interfere with your learning), please email or chat with me privately so that we can best accommodate you and we can create a learning environment that works for you.

If you have technology issues which are preventing you from accessing our course, please let me know ASAP and we will work out a solution together.

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