Instructor: Danny Tran   Email: trandanny@fhda.edu

Course Description: This course is an 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, social sciences, psychology, the sciences, and those pertaining to issues of contemporary interest. The use of technology (computers or graphing calculators) will be required in certain applications. Where appropriate, the contributions to the development of statistics by men and women from diverse cultures will be introduced. This Statistics course is a required lower-division course for students majoring or minoring in many disciplines such as data science, nursing, business, and others.

Book: *Introductory Statistics* by Illowsky, Barbara & Dean, Susan
                       A FREE pdf version of the textbook is available at:
                       https://openstaxcollege.org/textbooks/introductory-statistics

Required Materials: Graphing Calculator with statistical tests functions: TI-83 PLUS, TI-84, or TI-84 PLUS
                       is recommended. Access to a computer; we will be using Zoom, Canvas, and Minitab.
                       Course materials and assignments will be posted on Canvas and WebAssign.

Grading: Homework (WebAssign) (12)   180 points
                       Statistics Labs (2)   90 points
                       Chapter Video Questions   30 points
                       Term Project   170 points
                       Exam (4)   400 points
                       Final Exam   130 points
                       Total   **1000 points**

WebAssign: This is the online program we will be using to complete homework assignments. It
                       will cost approximately $45 for online use this quarter. You can purchase access
                       either through WebAssign.net or by buying an access code at the De Anza Student
                       Bookstore. Please follow the below directions:
                       1 – Go to our Canvas course.
                       2 – Click on Assignments
                       3 – Click on any of the WebAssign / Cengage assignments
                       4 – Register for an account

Late Assignment Policy: If you are unable to complete an assignment on time, you may request a 1-week extension from the original due date through WebAssign. Please make the request any time after the original due date. You will earn 50% of the points earned after the original due date.

Expectations:
Math 10 is an incredibly challenging course; be sure you put yourself in the best situation to succeed by having terrific study habits. Below is a list of tasks I recommend that you do to best succeed in this course & prepare yourself:
   ✓ Watch all videos and understand calculator directions

- ✓ Complete all homework
- ✓ Preview each lesson by skimming the lesson for 10-15 minutes before class meets
- ✓ Review your notes each day, making sure you have understood the material
- ✓ Attend office hours (Zoom)
- ✓ Form study groups to complete homework, study for exams
- ✓ Read the textbook
  - o Read explanations & work through the completed examples

Grades:

A	[93%, 100%]	B+	[87%, 90%)	C+	[77%, 80%)	D	[60%, 70%)
A-	[90%, 93%)	B	[83%, 87%)	C	[70%, 77%)	F	[0%, 60%)
		B-	[80%, 83%)				

What You Can Expect of Me:

I plan to interest and engage with each of you on a regular basis throughout the term to support your learning.
- ✓ I will provide direct instruction related to the course's learning objectives.
- ✓ I will typically respond to your questions within 24 hours (Monday – Friday)
- ✓ I will typically grade and provide feedback on your submitted coursework within 1 week.
- ✓ I will post announcements each weekend and engage in the course discussion area regarding academic course content when appropriate.

I am here for you. If you have questions, concerns, or feedback, we can talk via Zoom, email, or in class.

Disability Support Services: If you are in need of disability support services, please email dss@deanza.edu, phone (408) 864-8838, or visit https://www.deanza.edu/dsps/dss/.

Need help with this course? Want to more personal connections this quarter? Student Success Center tutors and workshops are ready for you! Watch the SSC Welcome Video to learn more.
Tutoring: Go to http://deanza.edu/studentsuccess and click to join a Zoom tutoring room during open hours.

Workshops: Attend a Skills Workshop, a content-specific math/science workshop, an Accounting chapter review workshop, or a Listening and Speaking workshop.

Resources: Join the SSC Resources Canvas site to see content and learning skills links.
After-hours or weekend tutoring: See the Online Tutoring page for information about NetTutor (via Canvas) or Smarthinking (via MyPortal).
We know that students who participate in tutoring, group study, or workshops for three or more hours succeed at much higher rates than those who do not. The students who most need the help may reluctant, but they do participate if instructors encourage and incentivize them to use the resources in some way. Perhaps students can improve their grade on an assignment, quiz or exam if they show they did something extra to prepare, such as tutoring, workshop or study group.

Questions, comments, or suggestions? Contact Co-Directors Melissa Aguilar aguilarmelissa@fhda.edu or Diana Alves de Lima alvesdelimadiana@fhda.edu the appropriate SSC contact.

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: