Syllabus: Math 10 (Section 27), Spring 2019
4:00 – 6:15 PM, Room G1

Instructor: Dr. Bill Wilson
Office Hours: 3:00-3:45 Monday, Wednesday in E37 (or by appointment)
Email: wilsonwilliam@fhda.edu   Phone: 408-309-3956

TEXTBOOK: **Introductory Statistics** by Illowsky and Dean. (print or online). All of the text is free online. Use or download at: https://openstax.org/details/introductory-statistics or at https://cnx.org/contents/MBiUQmmY@23.28:2T34_25K@13/Introduction You may also purchase a printed copy at the De Anza College bookstore.

Calculator Required: TI-83, TI-83+, or TI-84+

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, 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.

Homework: Homework will be assigned most classes.

Exams: Three exams will be given plus the final exam. Exam dates will be announced at least a week ahead of time. There will be no makeups. If an exam is missed because of a valid excuse, an equivalent of the final exam score will be used as the score for the missed exam.

Quizzes: Regular quizzes will be given. Quizzes will be announced at least one class ahead of time. You may correct and resubmit two quizzes for a higher score.

Final Exam: A comprehensive final exam will be given on June 26from 4:00 PM to 6:00 PM.

Accommodations: Students requiring accommodations are welcome in this class. Please notify me and DSS of any special requirements. Go to https://www.deanza.edu/dss/ for more information.

Grading: 3 midterms @ 15% = 45%
homework and class work: 10%
quizzes: 15%
final exam: 30%

Scale: A: 93+   A-: 90+
B+: 87+   B: 83+   B-: 80+
C+: 77+   C: 70+
D: 60+
F: < 60

Expectations of Students:
1. **Academic dishonesty will not be tolerated.** If a student is found cheating on an exam or quiz, he or she will receive a 0 for the item. Repeated instances of cheating may lead to failing the course and further action.
2. **Showing your work.** You need to show your work on homework and exams to receive full credit.
3. **Respect you fellow students.** Silence cell phones and tablets in class.

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.