Math 10: Introductory Statistics Winter 2020

Instructor: Fatemeh Yarahmadi

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Class Location and Time: M-R 4 – 6:15/ G1

Office Hours: Monday 2- 3:30, Friday 11-1:30 in S91H

Text: Inferential Statistics and Probability by Geraghty (online). (The online text is free)

Calculator – Scientific Calculator is sufficient. Cell phone calculators are not allowed on exams.
Access to a computer outside of class; we will be using the computer lab and *Minitab*.

Reading and Writing: Statistics is a concept-heavy subject. While we will do some computations and calculations by hand, we will mostly use technology. The essence of statistics lies in framing a problem in statistical language, collecting and processing data, and interpreting the meaning of results in the context of the original problem. This makes it very different from most math classes! You cannot hope to do well in statistics without a clear understanding of statistical concepts. You will need to keep your focus on both concepts and skills. On labs, quizzes and exams, in addition to correct numerical answers, you will also be graded on your explanations. Practice this carefully and deliberately on your homework and group work, and ask questions whenever you don't understand something.

Attendance: You are expected to attend all class meetings and complete all assignments. Come to class *on time* ready to learn and work for the entire class period. **Turn off cell phones and keep them out of sight.**
"Students missing one more class hour than the unit value for a particular course, without making prior arrangements may, at the instructor's option, be dropped without possibility of credit.

"***It is the responsibility of the student to drop the course.***

Sources of Help:
The De Anza campus has a tutorial center for math students where students can get "drop in" help. The tutorial center is located in room S-43.

Homework:

Written sets for submission: During our course, I will send out homework sets on Canvas to be written up and submitted ONLINE. These sets will include problem solving, critical thinking and applications exercises. Write your homework out in full detail, as modeled in the textbook and in class. There will be a strong emphasis on how the solutions are written up in this class. A subset of these exercises will be graded for correctness and all of it will be graded for completeness.

Exams: There will be four exams to test your understanding of the concepts from lecture and the homework. They should be straightforward for those who complete and understand the homework. Each exam will be worth 100 points. A total of 400 points will be counted toward your final grade

No make-up exams will be given. If you are forced to miss an exam, you need to contact me **before** the exam with a valid reason.

Final Exam: A comprehensive final exam worth 200 points will be given on the last day of the class.

Grading Policy:

Homework		100 points
Exam Reviews	4 @ 10 pts	40 points
Exams	4 @ 100 pts	400 points
Participation		60 points
Final	1 @ 200 pts	200 points
Total		**800 points**

Your grade will be computed as a straight average: the total number of points earned divided by the total points possible. Please keep all of your graded papers.

Student Honesty Policy: "Students are expected to exercise academic honesty and integrity. Violations such as cheating and plagiarism will result in disciplinary action which may include recommendation for dismissal."

Special Needs: "Students requiring special services or arrangements because of hearing, visual, or other disability should contact their instructor, counselor, or the Disabled Student Services office."

Recipe for Success:

- If you ever have any questions, COME TALK TO ME! You are welcome to send email to me whenever you need help!
- Visit the Tutoring Center.
- Form a study group.
- Attend all lectures and complete every homework assignment.
- For each hour of class time, expect to spend **two hours** outside of class reading the text, studying your notes, and working problems.
- Read the sections to be discussed in class prior to the lecture.

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.