DE ANZA COLLEGE Mathematics/Physical Science/Engineering Division

COURSE:	**Math 10 Elementary Statistics 5 credit hours**	**Spring 2018**
COURSE HOURS:	**MTWRF 8:30 a.m. – 9:20 a.m.**	**Room MLC 270**

INSTRUCTOR: Dr. Winnie Wong

E-mail: wongwinnie@fhda.edu

OFFICE HOUR: TuTh 10:20 a.m. – 11:20 a.m. outside of room MLC 270
If you are not able to visit me during my office hour, you may send me emails regarding the matters you would like to discuss. I will return your email within 24 hours.

DESCRIPTION: An introduction to modern methods of descriptive statistics, including collection and presentation of data; measures of central tendency and dispersion; probability; sampling distributions; hypothesis testing and statistical inference; linear regression and correlation; use of microcomputers for statistical calculations. Illustrations taken from the fields of business, economics, medicine, engineering, education, psychology, sociology and from culturally diverse situations.

PREREQUISITE: Math 114 (Intermediate Algebra) or the equivalent or satisfactory score on the math placement exam.

TEXTBOOK: Understandable Statistics: Concepts and Methods - 10th edition; Brase and Brase ;
Published by Cengage Learning.

CALCULATOR: A ***GRAPHING CALCULATOR*** with a table feature is required for this course. I recommend the TI-83, TI-83 Plus, TI-84 or the TI-36X Pro. I will use a TI-84 (a graphing calculator) as well as the TI-36X Pro (a non-graphing calculator) in class for demonstrations. You may use other models (non-symbolic), but I cannot guarantee I will know how to use them and therefore I may not be able to help you. However, calculators that perform symbolic operations (such as the TI-89 or 92) as well as laptop computers WILL NOT be allowed during quizzes, tests, and examinations. **The De Anza College Math Department does not currently allow students to use any calculators that are capable of symbolic algebra during examinations.**

ATTENDANCE: Mathematics is a very demanding subject. Class attendance is essential and required. I will keep attendance every class. **It is impossible for students to master course objectives when they habitually miss all or part of their class.** Any student who

misses more than two class during the first two weeks may be dropped. If a student decides not to continue the course, it is the student's responsibility to drop or withdraw by the official college deadlines. Failure to do so may result in a grade of F for the course. Students are allowed 3 absences during the entire quarter. No questions ask. On or after your 4th absence, 1% of your final grade will be deducted for EACH ABSENCE. I also count tardy. Three tardies will equal one absence. You will get a tardy if you are late to class (after I take roll) or decided to leave before class officially ends.

CONDUCT: I recognize that learning mathematics is not easy for many students. I will do my best to help and support you through the class. I invite you to ask questions in class, work with other students, and come to my office hours for extra help. However, I do expect you to put in full effort in this course. I expect you to arrive on time, come to class prepared (paper, pencil, calculator, and book), listen when I am speaking to the whole class, and listen to your classmates. Comments made in class should be cordial and to the point. It is my goal to create and maintain the best possible learning environment for all my students, so disruptions are simply not tolerated. If you are talking in class and it disrupts me or other students, I will not hesitate to ask you to leave. I expect that each student has the maturity and discipline to conduct themselves in a professional and respectful manner at all times. **Cell Phones:** Turn off all cell phones before class begins each day. Ringing phones and electronic devices are very disruptive to students around you. If you are constantly texting and not paying attention in class, I will ask you to surrender your phone for the duration of every lecture or simply ask you to leave the class.

HOMEWORK: **Online Homework:** At the end of each section taught, you will be given a set of *online* homework problems to complete through **www.webassign.com**. If you have delayed financial issues, you can still register by using their 14 days grace period option. Make sure you register by the third day of class. Your first homework will be due on Friday of the first week. You are allowed 5 free extensions of your online HW. On or after your 5th extension, you will be granted extensions with 20% penalty of the unfinished work.

The class key for WEBASSIGN is foothill 6307 4888. I know that it says Foothill. It works as well for DeAnza Students. Just type the code in and you will find our class.

You should expect to spend about **TEN (10) HOURS PER WEEK** studying and completing homework **outside of class**. This is not an exaggeration, it is an expectation.

LABS: The use of computers to analyze and interpret data is an essential part of learning statistics. To this end, we will be using the Excel software package. The labs are designed to help you learn how to use Excel and how it can be used as a valuable tool in

the course, and in statistics in general, for solving problems. On all work that you turn in, complete sentences and correct grammar must be used. It is also important to note that no prior computer experience is necessary. Computers with Excel are available in the Tutoring Center. No late labs will be accepted.

PROJECT: There will be one (1) term project. Projects are done in groups of two students. **Projects are due on the day of the Final Examination**. No projects will be accepted after the due date.

QUIZZES: There will be nine online quizzes and three written quizzes during the quarter. You have two attempts for each online quiz. Written quizzes are 30 minutes each and will be given at the end of lecture. There are no make up quizzes (online or written). I will drop one of your written quizzes (either a quiz you did not take due to absence or simply the lowest scored quiz, but not both). Quizzes will be based on both homework and lecture.

MIDTERM EXAMS: There will be two exams. Each exam is 50 minutes each. There are no make up exams. If you miss one exam, then your final exam score (%) will replace the exam that you missed. You may bring in one 8 1/2" X 11" sheet of paper with handwritten notes to each exam. You may write on both sides of this paper. No photocopying or word processing are allowed. Do not be late to midterms. No makeup time will be given if you are late. Please bring your picture ID to the midterms. Acceptable IDs are driver's license, passport, and permanent resident card.

FINAL EXAM: **Final exam is on Tuesday December 12th, 2017 9:15-11:15 am**

You may bring in one 8 1/2" X 11" sheet of paper with notes to the final exam. You may write on BOTH SIDES of this paper. No photocopying or word processing is allowed.

The math department requires all students to take the final exam in person. NO EXCEPTIONS. If you do not show up for your final, you will receive an F in the course. The final exam is comprehensive and closed book. Calculator is permitted.

No makeup final will be given. If you can't make it to final, you should drop the class now. Please bring your picture ID to the final. Acceptable IDs are driver's license, passport, and permanent resident card.

GRADE: **Weighting of Grades**

Your final course grade will be the better of the following:

1.	Quizzes	10%	OR	2.	Quizzes	10%
	Homework	10%			Homework	10%
	2 Exams	30%			Best exam score	15%
	Computer Labs	10%			Computer Labs	10%
	Term Project	10%			Term Project	10%
	Final Exam	30%			Final Exam	45%

Note: If you miss an exam for any reason, then your final grade is computed according to scenario number 2 above.

Grading Scale

Grade	A+	A	B+	B	C+	C	D+	D	F
%	97.0–100	90.0–96.9	87.0–89.9	80.0–86.9	77.0–79.9	70.0–76.9	67.0–69.9	60.0–66.9	0–59.9

IMPORTANT: Students who do not attain a score of at least 50% on the final exam are not eligible for a passing grade (C or above) in this course. That is in order to obtain a grade of C or better in the course a student MUST attain a score of at least 50% on the final exam AND at least 70% overall.

DROPPING: Students must drop by a certain date for a refund of fees. There are also grade drop-deadlines. These are printed in the course schedules and are also on the College web-site. I may drop students who display habitual absences, disruption of class, dishonesty when taking quizzes and/or exams, etc. **All students on the final grade roster who have not dropped, will receive a grade (not a W). All students on the final grade roster who have not dropped, and who do not show up for the final exam, automatically receive an F in the course.** Please consult with the college catalogue for all important dates and deadlines. **It is your responsibility to make sure you have completed the drop process and are dropped from the class if you choose to do so.**

GETTING HELP: My **office hours** (see first page) are set aside to help students with homework or if you need a concept re-explained or explained differently. The **Tutoring Center** is located in room S43. It is open Monday through Friday. Tutoring Center hours are posted on their door.

ACOMMODATION: Please inform us of any disabilities or medical conditions that we should know about. You may be assured that we will respect your privacy. Students requiring special services or

arrangements because of hearing, visual, or other disability can, in addition, contact the Adaptive Learning Division for assistance.

HONESTY: Cheating is absolutely forbidden in my class! Looking at someone else's exam, helping another student during an exam, talking to anyone except me during an exam, using a banned calculator, or using an external source of information for which you were not explicitly given permission, will result in an F grade for that quiz/midterm/final. Cheating incidents will also be reported to the Dean of PSME and the Dean of Students' affairs. The Deans reserve the right for further investigation and penalty actions.

A CONTRACT: One purpose of this "green sheet" is to provide you with the guiding principles upon which the class runs, and another is to make sure that you have at your fingertips, answers to any questions which might arise. Please put this sheet in a safe place where you can easily refer to it. Make sure you read it in its entirety before you ask me any questions about the course. It is also a contract between you, the student, and me, the instructor of record. Make sure that you understand its contents fully, especially the parts that pertain to testing and the computation of your grade, because so long as you remain enrolled in the course, you are implicitly agreeing to abide by these terms.

Math 10 **Spring 2018 Tentative Course Schedule**

Week	What will be covered that week	Happening that week
1	Syllabus, WebAssign, BRING CALCULATOR 1.1, 1.2, 2.1, 2.2	Online Quiz #1
2	2.3, 3.1, 3.2, 3.3	Online Quiz #2, Written Quiz #1 Lab 1 assign
3	4.1, 4.2	Online Quiz #3 Lab 1 due
4	5.1, 5.2	**Friday: Exam #1 (Chap 1 - 4)** Lab 2 assign
5	5.3, 6.1, 6.2, 6.3	Online Quiz #4 Lab 2 due
6	6.4, 6.5, 7.1	Online Quiz #5, **Written Quiz #2** Lab 3 assign
7	7.1, 7.2, 7.4	Online Quiz #6 Lab 3 due
8	8.1, 8.2	**Friday: Exam #2 (Chap 5 - 7)** Term project assign
9	8.4, 8.5, 9.1, 9.2	Online Quiz #7, Term project proposal due Lab 4 assign
10	10.1, 10.2	Online Quiz #8, **Written Quiz #3** Lab 4 due
11	10.3, 10.5	Online Quiz #9
Final	**Wednesday: FINAL EXAM 7:00 – 9:00 am** **Term project due**	

Please note that this is only a tentative course schedule. When there is a modification to this schedule, you will be notified during class time.

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.