MATH 10

SYLLABUS

(green sheet)

Instructor: Hung Nguyen
Email: nguyenhung@fhda.edu
Office: S43-E
Phone: (408) 864 - 8774
Office Hours: Mondays 9:30 am - 11:30 am and by appointment
Technology: TI-83, 83+, 84, 84+ or Excel
Course Website: Course studio
Required online texts:

1. Introductory (Collaborative)Statistics - *Illowsky/Dean edition*
   http://professormo.com/Math10/col10522.pdf
2. Inferential Statistics and Hypothesis Testing - *Geraghty*
   http://professormo.com/holistic/HypothesisTesting.pdf

Student Learning Outcomes

The student will:
1. Distinguish among different scales of measurement and their implications;
2. Interpret data displayed in tables and graphically;
3. Apply concepts of sample space and probability;
4. Calculate measures of central tendency and variation for a given data set;
5. Identify the standard methods of obtaining data and identify advantages and disadvantages of each;
6. Calculate the mean and variance of a discrete distribution;
7. Calculate probabilities using normal and t-distributions;
8. Distinguish the difference between sample and population distributions and analyze the role played by the Central Limit Theorem;
9. Construct and interpret confidence intervals;
10. Determine and interpret levels of statistical significance including p-values;
11. Interpret the output of a technology-based statistical analysis;
12. Identify the basic concept of hypothesis testing including Type I and II errors;
13. Formulate hypothesis tests involving samples from one and two populations;
14. Select the appropriate technique for testing a hypothesis and interpret the result;
15. Use linear regression and ANOVA analysis for estimation and inference, and interpret the associated statistics; and

Use appropriate statistical techniques to analyze and interpret applications based on data from disciplines including business, social sciences, psychology, life science, health science, and education.

Grades

Final grades for this course will be determined using the following weights

Homework	20%
Exam 1	15%
Exam 2	15%
Final	25%
Projects	25%
Total	100%

This course is not graded on a curve. The letter grades will be determined using the following cutoffs:[97,100] A+; [93, 97) A; [90,93) A-; [87,90) B+; [83,87) B; [80,83) B-, [77, 80) C+; [73,77) C; [70,73) C-, [67,70) D+, [63,67) D; [60,63) D-, [0,60) F.

Homework: Completed homework must be turned in by the due date. **Late homework will not be accepted**. You are encouraged to discuss homework assignments with other students, but you must write up your solutions independently. You are expected to turn in complete solutions - show your work on all steps. Most of the homework assignments will cover several sections of the textbook. Work on the homework a little bit each day. Ask questions in class and during the office hours. Do not wait until the day before an assignment is due to start work on it. Extra 10% credit for clear and correct homework.

Exams: There will be two in class exams. Both exams will be closed book/closed notes. You will be allowed to bring a calculator and one page of cheat sheet (8.5" x 11", handwritten in your handwriting, both sides) to both exams. **No make up exams**.

Final Exam: A comprehensive exam will be given on the final exam date and time. **No makeup final exam**.
7:30 am class: Monday June 26, 2017 at 7am-9am at Room G7
8:30 am class:Wednesday June 28, 2016 at 7am-9am Room G7

Projects: will be announced in class.

Attendance: Students are expected to attend all class meetings. Statistic data show that there is a strong correlation between attendance and both retention and achievement. Students are responsible for all information, material, and assignments covered in class regardless of class attendance.

Cellphone policy: be respectful of others. Please turn your phone onto vibrate or silence and do not answer calls during lessons.

Academic Integrity: Our own commitment to learning, as evidenced by your enrollment at De Anza College and the college's Academic Integrity Policy requires you to be honest in all your academic course work. Faculty are required to report all infractions to The Student Development & EOPS Office at De Anza College and Office of Student Affairs. The policy on academic integrity can be found at https://www.deanza.edu/studenthandbook/academic-integrity.html

Students with Disabilities:
If you need course adaptations or accommodations because of a disability, or if you need special arrangements in case the building must be evacuated, please contact me as soon as possible or see me during my office hours. Also, please contact Disability Support Services (864-8753) or Educational Diagnostic Center (864-8839) for information or questions about eligibility, services and accommodations for physical (DSS), psychological (DSS) or learning (EDC) disabilities.

I am looking forward to working with you and getting to know you this quarter!

TENTATIVE SCHEDULE - MATH 10
SPRING QUARTER - 2017

	Monday	Tuesday	Wednesday	Thursday	Friday
April	10 Descriptive Statistics	11	12	13	14
April	17	18 Proj 1 Due Probability	19	20	21 Drop Deadline
April	24 Discrete R.V.	25 HW 1 Due	26	27	28
May	1 Continuous R.V.	2 Proj 2 Due	3	4	5 CLT
May	8	9 HW 2 Due Confident Intervals	10 Review Exam 1	11 **Exam 1**	12
May	15	16 Proj 3 due One pop. tests	17	18	19
May	22	23	24	25 HW 3 Due	26 2 pop. tests
May	29 Memorial Day (No Class)	30	31 Proj 4 Due	1	2 Withdraw Deadline
May/June	5	6 HW 4 Due	7 Chi Square test/ANOVA	8	9
June	12	13 Review Exam 2	14 **Exam 2**	15	16
June	19 Regression	20	21	22 HW 5 Due Final Proj Due	23
June	26 **Final Exam 7:30am class**	27	28 **Final Exam 8:30 class**	29	30