

Math 10: MPS Elementary Statistics, Winter 2017

12/11/17

Instructor	Office	Phone	E-mail	Office Hours*
Diane Mathios Counselor	S33N	email please	mathiosdiane@deanza.edu	M – TH 10:30 – 11:20
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*If you wish to meet with me but are not available at the time listed, you may make an appointment.

This is a demanding, but rewarding class. It will take a minimum of 10 hours per week of study and group work. This is also a collaborative class. You will be expected to work with your classmates both inside and outside of class (no exceptions).

Student Learning Outcomes: The student will

- 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.

Textbook: Text: **Collaborative Statistics, 2nd Edition by Illowsky and Dean**

This text is available for free downloading at: http://cnx.org/contents/5e0744f9-9e79-4348-9237-ed012213a2d6@40.9:15/Collaborative_Statistics You may download the text for free onto your computer or device and print out the pages you want. (Note: If you plan on printing the entire book, please see Luis to borrow a copy of the text.)

Materials: **TI84 or TI-83 PLUS** graphing calculator (see www.rentcalculators.org to rent a calculator for \$9 per month); If obtaining a calculator would be a financial hardship, please see Luis. The program has a small number of calculators that will be leant out based upon need.

Math 10 Worksheet Packet: available for purchase at the bookstore

Ruler, small stapler.

Instructor Web site: <http://faculty.deanza.fhda.edu/mathiosdiane/>

Quizzes: Quizzes are closed book and with one page of handwritten notes (one side) allowed. Quizzes will test your understanding and completion of the homework problems. **Your lowest quiz grade will be dropped. No make-ups are given.**

Labs: Lab assignments make use of the calculator. You will **not** be able to complete most labs in class. **You will have 5 pts deducted if you are absent the day that the lab data is collected and worked on in class. Make sure you bring a copy of the lab to class on lab days (see calendar). No make-ups or late papers will be accepted. NO labs will be dropped.**

Homework: The purpose of homework is to help you learn the material in the course. **Do the practices first.** We will usually start them in class. They must be turned in with your HW. Then do the HW problems assigned. The answers are at the end of each chapter. You must show your work for all HW problems. Graphs must be done with a ruler. No credit will be given for answers only. **Each student may turn in a HW assignment one day late ONCE during the quarter. Other than this, no late HW will be accepted. Your lowest HW score will be dropped.**

Exams: 3 exams will be given. **No make-ups are given.** Exams are closed book. Students may bring to the exam one 8 ½" x 11" page (both sides) of handwritten notes, a calculator, and, if English is a second language, an English translation dictionary.

Final Exam: A two-hour comprehensive exam will be given. Students may bring 2 pages (both sides) of handwritten notes to the final. **Finals must be taken at scheduled time during finals week.**

Attendance: You are expected to attend all classes and be punctual. Tardies of 10 minutes or more count as half an absence; missing more than 40 minutes of class (beginning or end) counts as an ABSENCE. If you accumulate the equivalent of **5 absences**, whatever the reason, you may be dropped from the course. However, **it is your responsibility to drop the course**, if necessary.

Projects: There are 2 projects. Projects are done in groups and make use of data collected by the group. **No make-ups or late papers will be accepted.**

Labs, homework and projects are due by the start of class (within first 5 minutes) on the due date. They may be turned in earlier, but THEY WILL NOT BE ACCEPTED LATE.

Grades:	Exams (3@ 100)	300 pts.	A:	90 -100%
	Quizzes (6@ 20)	100 pts. (lowest 1 dropped)	B:	78 - 89%
	Labs (4@ 25)	100 pts.	C:	66 - 77%
	Final Exam	100 pts.	D:	55 - 65%
	Projects (2@ 50)	100 pts.	F:	0 – 54%
	Homework (11@ 10)	100 pts. (lowest 1 dropped)		

At the end of the quarter, if the final exam is the lowest exam, it will count as 1 exam. Therefore, the final exam and all other exams will count. If one of the 3 midterm exams is the lowest, then that midterm score will be **replaced** by the final score. Therefore, the final exam will count twice. In summary, you will have a total of 400 exam points.

Practices & Homework

Chapter	Practices	HW Section #	Homework problems
Ch 1:	Practice 1.11	1.12	1,3,5,7,9,11,13,16,17,28
Ch 2:	Practice 2.11	2.13	1, 3, 5,7,9,13,15,21,23
Ch 12:		12.13	1, 3, 5, 9, 13, 15
Ch 3:	Practice 1, 2	3.11	1, 3, 5, 7,8,9 – 13 odd, 15a-f,19, 21, 23
Ch 4:	Practices 1, 2	4.15	1 – 11 odd, 13(use Binomial) For #7- 13odd,don't forget to do parts a,b,c. See instruction before #7.
Ch 5:			Read 5.1 Continuous Random Variables (no written HW)
Ch 6:	Practice 6.7	6.8	1 – 7 odd, 8
Ch 7:	Prac 7.6 skip ΣX	7.7	1a – f, 3, 5, 9, 13abcghij, 16
Ch 8:	Practices 1 – 3	8.9	1, 5, 9, 13, 15, 17, 21
Ch 9:	Practices 1 – 3	9.16	1all, 2bcegi, 5 – 13 odd, 19, 25 (use solution sheet except for 1, 2)
Ch 10:	Practices 1 – 2	10.9	1 – 9 odd, 11, 15, 17, 19, 23, 25 (use solution sheet except for 1 – 9) plus Types of Studies HW (packet p. 4)
Ch 11:	Practices 1 – 2	11.11	3, 5, 7, 9, 13, 15
Ch 13:	Practice 13.7	13.8	1, 2, 7 plus handout (will not be collected, but material will be on Final Exam)

Topics to Skip

Ch 3: Venn diagrams	Ch 4: Poisson, Geometric, Hypergeometric Distributions
Ch 5: Uniform, Exponential Distributions	Ch 7: Central Limit Theorem for Sums
Ch 11: Test of One Variance	Ch 13: Test of Two Variances

Miscellaneous:

- **Bring your text and your calculator to class every day. Bring the Math 10 Worksheet Packet to class every day.**
- **Take-home papers that are to be turned in for grading must be STAPLED (no doggy-ears or paper clips) before class.** All papers turned in must be NEAT.
- **Cell phones & pagers must be turned off or to vibrate mode**
- Students are encouraged to form study groups.
- **Graphs should be constructed with a ruler OR done by computer.**
- Your grade is based on points and not a “curve.”
- We expect you to answer word problems and questions with complete English sentences

Winter 2017 -- MPS					as of 12/11/2016
	Monday	Tuesday	Wednesday	Thursday	Friday
Jan	Ch. 1 Instruction begins Read Ch. 1 9	Ch.1 10	Ch.1 Begin Calculator Start Proj.1: 14.1.1 11	Ch.1 1.14 Ch. 1 Lab 2 12	Ch 2 Read Ch. 2 13
Jan	Martin Luther King Holiday no class 16	Ch. 2 HW Ch. 1 - DUE 17	Ch 2 Proj 1 data check 18	Ch 2 Lab Due: Ch. 1 19	Ch . 12 Read Ch. 12 20
Jan	Ch . 12 Quiz: Ch. 1&2 HW Ch. 2 - DUE 23	Ch . 12 24	Ch. 12 25	Review 26	Exam 1 Ch. 1,2,12 HW Ch. 12 - DUE 27
Jan Feb	Ch. 3 Read Ch. 3 30	Ch. 3 31	Ch. 3 Proj. 1 typed & stapled packet due 1	Ch. 3 2	3.13 Ch. 3 Lab 3
Feb	Ch. 4 Read Ch. 4 6	Ch. 4 Quiz: Ch. 3 HW Ch. 3 - DUE 7	Ch. 4 8	Ch 5/Ch 6 Read Ch 6 Lab Due: Ch. 3 9	Ch 6 Quiz: Ch 4 HW Ch. 4 Due 10
Feb	Ch 6 13	Ch 7 Read Ch 7 14	Ch 7 HW Ch. 6 - DUE Quiz: Ch. 6 15	Ch 7 16	President's Holiday no class 17
Feb	President's Holiday no class 20	Ch 7 7.10 Ch. 7 Lab 2 21	Review 22	Exam 2 Ch. 3, 4, 6, 7 HW Ch. 7 - DUE 23	Ch. 8 Read Ch 8 24
Feb Mar	Ch 8 27	Ch 8 28	Ch 8/9 Read Ch 9 Lab due: Ch. 7 1	Ch. 9 Start Proj. 2: 14.4.3 2	Ch. 9 Quiz: Ch 8 HW Ch. 8 - DUE 3
Mar	Ch 9 6	Ch. 9 Proj 2 Article & typed proposal due 7	Ch. 10 Read Ch 10 8	Ch. 10 9	Ch. 10 Quiz: Ch.9 HW Ch. 9 - DUE 10
Mar	Ch. 10 Project 2 Data Check 13	Review 14	Exam 3 Ch. 8,9,10 HW Ch. 10 DUE 15	Ch 11 Read Ch 11 16	Ch 11 11.14 Ch. 11 Lab 2 plus handout 17
Mar	Ch. 11 Project 2 typed & stapled packet due 20	Ch. 11 21	Ch 13 Lab Due: Ch. 11 22	Ch. 13 HW Ch. 11 DUE no day of grace 23	Review for Final Exam 24
Mar	Finals no class 27	Final Exam 9:15 - 11:15 28	Finals no class 29	Finals no class 30	Finals no class 31