Math 10 – Statistics MPS (Sec MP4) – Spring 2017 Syllabus

Instructor: Maurice (Mo) Geraghty   **Office Location/Phone:** S-49A (408) 864-5383
Email: geraghtymo@fhda.edu   **Office Hours:** M 2:45–3:45   Tu 11:30–1:00 (in LCW110)
Website: http://nebula2.deanza.edu/~mo   W 2:45–3:45   Th 2:45–3:45
             http://professormo.com (mirror)

Required Materials: Textbook – *Collaborative Statistics* by Illowsky/Dean **(online or printed copy)**
                         Textbook – *Inferential Statistics and Hypothesis Testing* by Geraghty **(online only)**

                         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. Also, you will need an e-mail address and access to the Internet. Course topics, homework, exam information, handouts, data sets, and other information will be posted on the website.

Grading: Grading will be based on the following criteria. **Grades are not negotiable.**

* * * * * * * * *Grading Scale (points) * * * * * * * * *	Grading Criteria	
485 - 500 = A+ 465 - 484 = A 450 - 464 = A-	Exams:	200 pts
435 - 449 = B+ 415 - 434 = B 400 - 414 = B-	Final:	100 pts
375 - 399 = C+ 350 - 374 = C 325 - 349 = D+	Labs:	110 pts
300 - 324 = D 0 - 299 = F	Homework:	50 pts
	Groupwork:	40 pts

Homework: Completed Homework must be turned in by the due date, but should be completely daily. Homework assignments may also be posted on the website. **There is no credit for late homework**.

Group Work: There will be group work given out in class. **There is no credit for group work turned in after the due date.**

Exams: There will be two exams during the quarter. Your final exam (converted to a percentage) will replace your lowest scoring exam if it improves your grade. **There are no make-up exams.**

Final Exam: A comprehensive exam will be given on the final exam date.

Computer Lab: Lab classes will be held in the math computer lab: S44. You will use Minitab and other statistical software in analyzing data, learning statistical models and working on the class material Computer labs can be done in groups of no more than four people for a common grade and be turned in by email on the due date. **There is no credit for late labs received after midnight on the due date.**

Adding/Dropping: If you choose not to complete the course, it is your responsibility to officially drop or withdraw from the course by the deadline date. **I will not sign late drop or withdrawal forms.**

Attendance: See MPS contract for attendance policies.

Changes: Information in this syllabus may be changed during the quarter, but you will be informed in advance.

Other Information: All students are expected to understand the college policy on cheating as outlined in the student handbook. **Plagiarism on the final project (submitting another's work as your own) will result in an immediate failure for the course for your entire group.**

                    Read the **Frequently Asked Questions** on the website for other policies and procedures.
                    Student Learning Outcomes (SLO's) are also posted on the class website.

                    Cell phones and pagers should be turned off. Please arrive on time and stay the entire period.
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                    If you feel that you may need an accommodation based on the impact of a disability, you should contact me privately to discuss your specific needs. 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.

Tentative Schedule - Math 10 - MPS
Spring Quarter - 2017

	Monday	Tuesday	Thursday	Wednesday	Friday
Apr	10 **Part 1**	11 **Part 1** / HW 0	12 **Lab** / **Lab 1 Due**	13 **Part 1**	14
Apr	17 **Part 1/2**	18 **Part 2** / HW 1	19 **Lab** / **Lab 2 Due**	20 **Part 2**	21 **Drop Deadline (Apr 23)**
Apr	24 **Part 2**	25 **Part 3** / HW 2	26 **Lab** / **Lab 3 Due**	27 **Part 3**	28
May	1 **Part 4** / HW 3	2 **Part 4**	3 **Lab** / **Lab 4 Due**	4 **Review**	5
May	8 **Exam 1** / HW 4	9 **Part 5**	10 **Lab** / **Lab 5 Due**	11 **Part 5**	12
May	15 **Part 5/6**	16 **Part 6** / HW 5	17 **Lab** / **Lab 6 Due**	18 **Part 6**	19
May	22 **Part 6**	23 **Part 6**	24 **Lab** / **Lab 7 Due**	25 **Part 7** / HW 6	26
May/Jun	29 **Holiday**	30 **Part 7**	31 **Lab** / **Lab 8 Due**	1 **Part 7**	2 **Withdraw Deadline**
Jun	5 **Part 7**	6 **Review**	7 **Lab** / **Lab 9 Due**	8 **Exam 2** / HW 7	9
Jun	12 **Part 8**	13 **Part 8**	14 **Lab** / **Lab 10 Due**	15 **Part 8**	16
Jun	19 **Part 9** / HW 8	20 **Part 9**	21 **Lab** / **Lab 11 Due**	22 **Part 9/Review**	23
Jun	26	27	28 **Final Exam** / **4:00 - 6:00** / HW 9	29	30

Slides	Topic	Geraghty	Illowsky/Dean
Part 1	Descriptive Statistics	Sec 9.4 - outliers (partial)	1 (all), 2 (all), 6.3, 12.4, 12.6, 12.7
Part 2	Probability	Section 4 (complete)	3 (all)
Part 3	Discrete Random Variables	(none)	4 (omit 4.7)
Part 4	Continuous Random Variables Central Limit Theorem	Sec 7 - CLT only (partial)	5 (all), 6 (all), 7 (omit 7.3)
Part 5	Confidence Intervals	Section 8 (complete)	8 (all)
Part 6	Hypothesis Testing Concepts and One Population Tests	Section 9 (complete)	9 (all), 11.6
Part 7	Two Population Hypothesis Testing for Means and Variances	Section 10 (complete)	10 (omit 10.4), 13.5
Part 8	Chi-Square tests/ANOVA	Section 11 (complete)	11 (all), 13 (all)
Part 9	Regression	Section 12 (complete)	12

Student Learning Outcomes - Math 10

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.