

MATH 227, Statistics, Spring 2013

MW, 11:00am-1:05pm, 4.00, CMS 126

Instructor: Ryan Yamada

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Office Hours: MW 1:05pm – 2:35pm

TTh 10:30am – 12:00pm

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Text: *Elementary Statistics: A Step by Step Approach 6th Edition* by Allan Bluman

Course description: Course includes the following topics: graphical techniques; probability and probability distributions; sampling; estimation; correlations; regression; hypotheses testing; categorical data. Emphasis is on data analysis and interpretation, using sample data to extrapolate population characteristics.

Final Exam Date: Monday, June 3rd, 12:30pm-2:30pm

Student Learning Objectives:

- Use probability concepts to solve problems and interpret their results.
- Demonstrate proficiency in descriptive statistics and inferential analyses to draw conclusions about a population.

Grading: Exams – 40%, Final – 25%, Quizzes 10%, Homework – 10%, Mini-Tab Computer Labs – 10%, Participation (Problems and Group Work) – 5%

Grading Scale: Typically 90% earns the lowest A, 77% the lowest B, and 66% the lowest C, although I reserve the right to be more generous. For borderline cases attendance, participation, and level of improvement on the final are considered.

Attendance: Attendance is very important in the learning process. If you are absent, it is your responsibility to keep up with the material as noted on the schedule. Attendance on non-quiz days will be taken one of three ways.

- Most of the time, problem of the day will be given. This problem will be worth three points and will be related to that day's lecture. You may use your book, notes, or whatever is on the board to solve the problem (but you must work on your own). One point will be given for simply attempting the problem, two points for an answer that starts off right, and three points for the correct answer.
- On some days, group-work may be assigned instead and will be graded similarly to the problem of the days except you can work in groups (and so the problems may be more difficult).
- Sometimes, there may not be time for a problem or group work after the lecture and so a sign-in sheet will be used for attendance. In these cases it is your responsibility to make sure you are signed in.

There are no make-ups for any in-class activities. Missing multiple problems/group work may lead to you getting dropped from the class. However it is always the student's responsibility to be sure to drop or verify that they are dropped from the class. Never assume I will drop you, always double check online or with Admissions.

Exams and Quizzes: You will be given eight quizzes, four exams, a computer based lab exam, and a comprehensive final exam on the dates noted on the course schedule. Your lowest exam score may be replaced by that of the final, if it is to your advantage. No calculators will be allowed on any quizzes or exams. **You must show all of your work directly on the quiz or exam.** Any student caught cheating on an exam will receive no points for that exam; this score will not be replaced by that of the final. Any form of academic dishonesty can be grounds for receiving a grade of F and possibly dismissal from the college.

Any student that does not take the final exam will fail the course, regardless of his or her grade to that point. You must take the final exam with the rest of the class at the scheduled time listed above.

Make-ups: Make-up exams are only allowed if a student has a “verifiable documented emergency” (i.e. car accident, hospitalization, etc.) Make-up quizzes, however, are given at the instructor’s discretion and depend on both the reason and the amount of notice given (a good reason with a week notice is much more likely to get a make-up than a “shaky” reason the day after the quiz).

Homework: Homework assignments will be given for every section of the text that we cover. Each section of homework is worth 4 points and will be graded both on completeness and correctness. Two problems will be randomly selected and you will get one point for each one that is correct. The other two points are awarded based on how much of the homework section you attempted.

Each homework assignment will also be given a “style grade”. This style grade, also worth four points, will be based on the presentation of the homework problems. For this style portion, I will be looking for neat, organized work that is done in order and is easy to read and follow.

No late homework will be accepted, but at the end of the semester your lowest 3 sections of homework will be dropped. All answers must be justified and all work must be shown. **Simply turning in a list of answers will not get you any credit.**

Mini-Tab Computer Labs: We will spend three class days during the semester at the computer lab using the Mini-Tab software to solve various statistics problems (these days are noted on the schedule). At the end of the semester, we will have a Lab Final. This Lab Final will be open book and open notes, but will require you to use the Mini-Tab software to answer the questions. Mini-Tab is available on all Math Lab computers at school.

Some versions of our textbook come packaged with Mini-Tab for home use. You can also get a free 30-day trial of Mini-Tab to use at home at <http://www.minitab.com/en-US/products/minitab/free-trial.aspx>. Home use of Mini-Tab is optional: all Mini-Tab class work can be completed at the Math Center.

Cell phones and other electronic devices: To avoid unnecessary interruptions in this class, all electronic devices must be turned off or on silent mode and kept out of sight. No calls or other interruptions will be tolerated unless there is an emergency or previously arranged agreement. Students not following this policy may be asked to leave class and any scores for that day will be zero. No cell phones are allowed to be out of backpacks during exams or quizzes. Use of a cell phone in any form during an exam may result in a score of zero for that exam.

STUDENTS ARE TO ADHERE TO THE CAMPUS POLICY ON ACADEMIC INTEGRITY AS OUTLINED IN THE CURRENT CATALOG. See campus policy on Standards of Student Conduct as outlined in the current LA Mission College Schedule of Classes.

DSPS: If you have a documented disability and wish to discuss academic accommodations, you can either contact me or contact the Office of Disabled Student Programs and Services (DSPS). The DSPS office is located at INST 1018 and can be reached either by phone at (818) 364-7732 or online at <http://www.lamission.edu/dsps>

Significant changes to the drop policy and class repetition are now effective

Class repetition: Students are limited to three attempts at passing a course with a “C” or better. Any letter grade or “W” counts as an attempt. And this rule is retroactive. This means for example that if a student got a “W” and a “D” in Math 227 two years ago, he has one more chance to pass before he is prevented from enrolling in Math 227.

Last day to drop without a W: In the past this was the census date, about the 3rd week of classes. It is now Monday, February 18th. Any student still on the roster after this date will receive some type of letter grade (either A-F or W) and the course will count as one of your attempts.

Math 227 Course Schedule - MW Lecture

Week	Monday	Wednesday
2/4 - 2/8	Intro Chapter 1	2.1, 2.2 Quiz #1 (Chapter 1)
2/11 - 2/15	2.3, 2.4	3.1, 3.2 Quiz #2 (Chapter 2)
2/18 - 2/22	Holiday (no class)	3.3, 3.4
2/25 - 3/1	Mini-Tab Computer Lab (Chapter 2 - 3)	Exam #1 (Chapter 1 - 3)
3/4 - 3/8	4.1, 4.2	4.2, 4.3
3/11 - 3/15	4.3, 4.4	4.4, 4.5 Quiz #3 (Ch 4.1 - 4.3)
3/18 - 3/22	5.1, 5.2	5.2, 5.3 Quiz #4 (Ch 4.4 - 5.1)
3/25 - 3/29	Exam #2 (Chapter 4 - 5)	6.1
4/1 - 4/5	Spring Break (no classes)	
4/8 - 4/12	6.2	6.3 Quiz #5 (Ch 6.1 - 6.2)
4/15 - 4/19	6.4	Mini-Tab Computer Lab (Chapter 4 - 6)
4/22 - 4/26	7.1, 7.2	7.2, 7.3 Quiz #6 (Ch 6.3 - 7.1)
4/29 - 5/3	Exam #3 (Chapter 6 - 7)	8.1, 8.2
5/6 - 5/10	8.2, 8.3	8.3, 8.4 Quiz #7 (Ch 8.1 - 8.2)
5/13 - 5/17	Mini-Tab Computer Lab (Chapter 7 - 8)	10.1, 10.2 Quiz #8 (Ch 8.3 - 8.4)
5/20 - 5/24	Mini-Tab Computer Lab Exam	Exam #4 (Chapter 8 & 10)
FINAL EXAM: Monday, June 3rd 12:30pm - 2:30pm, CMS 126		

Math 227 Homework Assignments Spring 2012

Due	Section	Problems
2/11	Ch 1 Review (p 26)	1-9 all, 10bcde, 11-13 all, 17, 23, 25, 27, 29
	Ch 1 Quiz (p 29)	All except 20 and 21
2/13	2.1	3, 7, 8, 11
	2.2	4, 5, 15, 16
	2.3	3, 5, 6, 10, 14, 15, 16
	2.4	6, 7, 13
2/25	3.1	3, 4, 7, 30, 31, 32
	3.2	7, 9, 11, 13, 30, 31, 33, 34, 35, 37, 41, 42
	3.3	11, 13, 14, 22, 23, 24, 25, 27
	3.4	1, 3, 7, 9, 11, 13, 15
3/13	4.1	1-10 all, 12aceg, 13, 14abcdehij, 17, 21, 25, 31, 32
	4.2	2, 5, 9, 11, 13, 15, 17, 21
	4.3	1, 3, 5, 7, 8, 13, 15, 17, 19, 21, 29, 31, 34-37 all, 39, 41, 42, 45
3/20	4.4	1, 3, 7, 9, 13efg, 15, 17, 19, 23, 27, 29, 31, 35, 40
	4.5	9
	5.1	7, 9, 11, 13, 15, 17, 19, 25, 27
3/25	5.2	3, 7, 11, 12, 13, 15, 18
	5.3	1, 3ae, 5, 7, 11, 14bgh, 15, 17, 21, 25
4/10	6.1	7-49 odd
	6.2	1, 2, 9, 11, 15, 21, 22, 23, 26, 28, 30
4/24	6.3	9, 13, 15, 17, 21, 23
	6.4	3abcd, 7, 8, 11
	7.1	11, 13, 15, 17, 19, 21, 23, 25
4/29	7.2	4abd, 5, 7, 10, 13, 15, 16, 17
	7.3	1bcd, 2ab, 7, 8, 13, 15, 16, 17

5/8	8.1	12, 13
	8.2	5, 6, 7, 15, 19, 20, 21, 25
5/15	8.3	4abcdef, 5, 6, 9, 11, 17
	8.4	13, 16, 17, 19 (p-value approach)
5/24	10.1	15, 18
	10.2	1-11 all

Homework will be graded on both completeness and correctness. Half of the homework score will be based on how many of the assigned problems were attempted. The other half of the homework score will be based on the correctness of randomly selected problems.

You must show all your work on homework, simply turning in a list of answers will not get you any credit.