

L.A. MISSION COLLEGE - Math 227 - Elementary Statistics  
Course Syllabus Fall 2013 Section: 0364

Note: The information provided in this syllabus is subject to change.

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<b>LECTURE:</b>	M,W 8:10 - 10:15 AM	<b>OFFICE HOURS:</b>	M,W 10:30 - 11:30 AM
<b>CLASSROOM:</b>	CMS 029	<b>OFFICE LOCATION:</b>	CMS 247
<b>REQUIRED TEXT:</b>	<i>Elementary Statistics</i> , 6 <sup>th</sup> Ed. by Allan G. Bluman. A Brief Version		

**COURSE DESCRIPTION:** We will cover the following topics:

- Chapter 1: The Nature of Probability and Statistics
- Chapter 2: Frequency Distributions and Graphs
- Chapter 3: Data Description
- Chapter 4: Probability and Counting Rules
- Chapter 5: Discrete Probability Distributions
- Chapter 6: The Normal Distribution
- Chapter 7: Confidence Intervals and Sample Size
- Chapter 8: Hypothesis Testing
- Chapter 10: Correlation and Regression

**COURSE PREREQUISITE:** Successful completion of Math 125 or a passing score of math placement test.

**COURSE OBJECTIVES:** This course is an introduction of basic statistical concepts and techniques, which includes descriptive and inferential statistics, construction of statistical tables, display data with statistical graphs, correlation and regression, probability, statistical distributions, central limit theory, testing hypotheses & confidence interval of a single population for the population mean or population proportion. Minitab is used throughout the course to present graphs, to solve exercises, to perform a simulation, and to interpret & analyze application problems.

**IMPORTANT DATES:**

Sep. 2:	Labor Day Holiday (College closed)
Sep. 6:	Last day to ADD classes
Sep. 8:	Last day to DROP classes, without a "W"
Nov. 11:	Veterans Day Holiday (College closed)
Nov. 17:	Last day to DROP, with a "W"
Nov. 28-Dec. 1:	Thanksgiving Holiday (College closed)
Final Exam:	Monday, Dec 9, 10:00 am-12:00 pm

**STUDENT LEARNING OUTCOMES:**

1. Organize, describe, analyze, and interpret data through the use of statistical methods.
2. Use statistical concepts involving normal curve, confidence interval, and hypothesis testing to draw sound conclusions and make informed decisions.
3. Use the rules of probability to solve problems and interpret their results.

## GRADING & SCALE:

Five Quizzes:	15%	A: $\geq 90\%$
Computer Project	10%	B: 80 - 89%
Four Exams:	50%	C: 70 - 79%
FINAL Exam:	25%	D: 60 - 69%
		F: $< 60\%$

## EXAMS:

- There will be four classroom exams. There will be no make-up examinations and any missed exam will receive a grade of 0.
- A comprehensive final exam will be given on Monday, December 9. There are **no make-ups** for the final and all students must take the final exam.
- All exams will be based on examples worked in class, assigned homework, and computer lab materials.

**HOMEWORK & QUIZ:** Homework from the textbook will be assigned regularly. Students are responsible to complete the assigned homework as each section is completed. The assignments will not be collected; however, similar problems will appear in the quiz.

## COMPUTER COMPONENT:

- Various topics in this course will be covered using Minitab software. Minitab software and the data sets needed for the class are available in all computers in the Math Center, LRC 205, LRC 234, and the LRC Computer Commons, and CSIT lab (INST #2009). The student version of Minitab and the data set CD are included with every new textbook for home use.
- There will be one computer-based project and one computer-based quiz covering all the lab materials. More detail will be announced during the lab.

## ATTENDANCE:

Students are expected to attend all class meetings. Unexcused absences of four meetings may result in excluding students from class. Students themselves are responsible for dropping a class they no longer attend; failure to do so may result in a grade of F.

**MATH TUTORING:** Drop-in tutoring is available at the Math Center located in the basement of the Campus.

## CLASS COMPORIMENT:

All students are expected to arrive on time. Late arrivals are disruptive to both the lecturer and students. Once you are seated, do not leave the room until dismissed. Such comings and goings are also disruptive. Students must turn off cell phones while in class. Students are encouraged to ask questions and make comments on the lecture material. This should be done in a courteous manner by raising one's hand and being recognized. Side conversations between students that disrupt the flow of the lecture will not be tolerated. It is the student's responsibility to manage his or her academic workload. Should a student decide to stop attending class it is their responsibility to drop the class. All students appearing on the grade roster will receive a grade regardless of whether they are attending classes or not.

**GETTING AN “A”**

Everyone starts the class with an “A”, so how do you keep it? First, it is very important to attend all class lectures. Second, in order to be good at math it takes practice, practice, and practice. This means you should do all of your homework and understand them. Do not just memorize how to do them, but understand the problem and how to solve it using the concepts learned in class. Get a study partner. Many times when a friend or study partner explains a problem or concept to you in a different way, it might make more sense. Also, you can keep each other accountable by making sure you do your homework in a timely manner. Finally, be well-prepared for exams. Do not try to “cram” before the test, but begin studying well before the test date. Get additional help if needed.

**Math 227 Elementary Statistics Tentative Schedule**

<b>Date</b>	<b>Monday</b>	<b>Wednesday</b>
Aug 26/ Aug 28	Orientation; Ch 1	<b>Quiz 1</b> (Ch 1); Ch 2.1– 2.2
Sept 02 / Sept 04	<b>Labor Day (no class)</b>	Ch 2.3– 3.1
Sept 09 / Sept 11	Ch 3.2– 3.4	<b>Quiz 2</b> (Ch 2); Review (Ch 2,3)
Sept 16 / Sept 18	<b>Exam 1</b> (Ch 2, 3)	<b>Lab I</b>
Sept 23 / Sept 25	Ch 4.1– 4.2	Ch 4.3– 4.4
Sept 30 / Oct 02	Ch 4.4 – 4.5	Review (Ch 4); Ch 5.1– 5.2
Oct 07 / Oct 09	<b>Exam 2</b> (Ch 4)	Ch 5.3– 6.1
Oct 14 / Oct 16	Ch 6.2– 6.3	<b>Quiz 3</b> (Ch 5); Ch 6.4
Oct 21 / Oct 23	Review (Ch 5,6)	<b>Exam 3</b> (Ch 5, 6)
Oct 28 / Oct 30	<b>Lab II</b>	Ch 7.1– 7.2
Nov 04 / Nov 06	Ch 7.3 , Ch 8.1	<b>Quiz 4</b> (Ch 7); Ch 8.2 - 8.3
Nov 11 / Nov 13	<b>Veteran’s Day (no class)</b>	Ch 8.3– 8.4
Nov 18 / Nov 20	Review (Ch 7, 8)	<b>Exam 4</b> (Ch 7, 8)
Nov 25 / Nov 27	<b>Lab III</b>	<b>Lab IV</b> Ch 10
Dec 02 / Dec 04	<b>Computer Quiz (Lab V)</b>	<b>Final Review</b>
Dec 09 / Dec 11	<b>Final Exam</b> <b>(10:00am-12:00pm)</b>	