MATH 227 Statistics
Summer 2013 Section: *0121* Time: *MTWTh 10:35 am– 2:05 pm* Location: *CMS 126*

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Office Hours: MTWTH 10:00-10:30 am or by appointment

Text: Elementary Statistics by Allan G. Bluman, 6th Edition. A Brief Version

Prerequisite: Math 125 or 123C with a grade of 'C' or better, or appropriate skill level demonstrated through the Mathematics assessment process, or by permit.

Important Dates:

Last day to ADD classes	Thursday, June 13
Last day to DROP classes, without a "W"	Thursday, June 13
Last day to petition for credit/no credit	Thursday, June 13
Last day to DROP, with a "W"	Saturday, July 6

Final Exam: Thursday, July 11, 10:35 am- 12:35 pm

Course Contents: 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 Description: 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.

Course Organization: The course will follow the attached schedule as closely as possible.

Student Learning Outcomes:

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

Attendance:
Students are expected to attend all class meetings. Unexcused absences of two meetings may result in excluding students from class. Students themselves are responsible for dropping a class they no longer attend.

Withdrawals:
If you stop attending the class (or wish to drop a class) on or before July 6th, 2013, you must drop the class yourself – **officially** – by Internet or through the Office of Admissions and Records. Failure to do so may result in a grade of "F" in the class. Please take note of important dates noted above and in the timeline.

Title V and Education Code Changes on Class repetition:
A new state policy in effect as of Summer 2012 limits students to 3 attempts per course. Receiving a grade or "W" for a course counts as an attempt**, regardless of when the course was taken**.
For spring 2013, the last day to drop without receiving a "W" is Thursday, June 13.

Tools:
A scientific calculator with statistical functions is required. Graphing calculators, cell phones, and other forms of hand held computers are not allowed during in-class assessment.

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 Thursday, July 11. 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. The student version of Minitab and the data set CD are included with every new textbook for home use. A free 30-day trial of Minitab software is available at: http://www.minitab.com/en-US/products/minitab/free-trial.aspx.
- There will be one computer--based quiz covering all the lab materials at the end of course. More detail will be announced during the lab.

Grading:	4 Quizzes	12%
	4 exams	52%
	Computer Quiz	10%
	Final exam	26%

Grading scales:
Letter grades will be determined by your overall percentage in the course:
- A = 90%-100%
- B = 80%-89%
- C = 70%-79%
- D = 60%-69%
- F = 0%-59%

Class comportment:
- All students are expected to arrive on time. Late arrivals are disruptive to both the instructor and students. Once seated, do not leave the room until dismissed. Such comings and goings are also disruptive.
- Cell phone must be turned off or on silent mode and kept out of sight while in class. Cell phone ringing and text messaging create distractions. No cell phones or other electronic devices should be used during the 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.
- Students are responsible for managing their 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.

Cheating:
Any form of academic dishonesty will not be tolerated. If caught, you may be given a zero for that particular exam or quiz. The event will be reported to the Math Department Chair who will forward the report to the VP of student services for disciplinary action which may include suspension or expulsion.

Standards of student conduct:
All students are expected to follow the standards of student conduct established by the Board of Trustees of the Los Angeles Community College District. Any form of violation will not be tolerated and will result in disciplinary action.

Support & Resources:

- Free tutoring and other academic resources such as math textbooks, calculators, and computers with internet access are available at the Math Center located in the CMS 121. (The Math Center- hours of operation for the summer 2013: M-Th 9:00 am-6:00 pm) For more information, call (818)364-7711 or visit http://lamission.edu/mathcenter/.
- STEM resources including academic counseling and advisement are available through Los Angeles Mission College STEM program. For more information, call (818) 833-3425 or visit http://lamission.edu/stem/.
- Disabled Students Programs and Services (DSPS): For appointments and information call (818) 364-7732 or visit http://lamission.edu/dsps/.

Study the textbook:
The textbook provides a reasonable level of mathematical rigor and many exercises are quite reveling. I strongly encourage you to read/study the text carefully. The lectures are designed as a supplement to and not an alternative for the textbook. Students are expected to master all topics in the textbook unless otherwise indicated.

Miscellaneous:
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

Week	Date	Monday	Tuesday	Wednesday	Thursday
1	June 10-13	Orientation; Ch 1 2.1–2.2	**Quiz 1 (Ch 1);** 2.3–2.4 & 3.1	3.2 – 3.4	**Exam 1** (Ch 1 & 2); Lab I
2	June 17-20	**Quiz 2 (Ch 3);** 4.1 – 4.2	4.3 – 4.5	5.1– 5.3	**Exam 2** (Ch 3 & 4); 6.1 – 6.2
3	June 24-27	**Quiz 3 (Ch 5);** 6.3 – 6.4	Review (Ch 5 & 6) Lab II	**Exam 3** (Ch 5 & 6); 7.1 – 7.2	7.3 & 8.1 – 8.2
4	July 01-04	**Quiz 4 (Ch 7);** 8.3 – 8.4	Review (Ch 7 & 8)	**Exam 4** (Ch 7 & 8); Lab III	***Independence Day Holiday***
5	July 08-11	Ch 10 Lab IV	Computer Quiz	Final Review	**Final Exam** **(10:35 AM-12:35 PM)**