Math 227	Statistics
Summer 2013	Instructor: Carole Akl

Section: 0117	Lecture Time: MTWTh 10:35 AM - 2:05 PM
	Location: CMS 128
Office Hours:	MTWTh 10:00-10:30 AM or by appointment
Office Location:	CMS 124, Office #139
Telephone:	(818) 364-7873
E-mail:	aklce@lamission.edu
Website:	www.lamission.edu/~aklce/3740

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

Textbook: *Elementary Statistics A Step by Step Approach* by Allan G. Bluman, 6th Edition. *A Brief Version.*

Homework: Homework is posted on the class website. It is your responsibility to do it after each section is covered in class. It is neither collected nor graded. It does not "count" as such; however, similar problems will appear on the quizzes.

Quizzes: There will be four quizzes. The tentative dates are given in the timeline on the last page of this syllabus. Quizzes are based on HW problems. No make-up quizzes will be allowed and any missed quizzes will receive a grade of zero.

Exams: There will be four exams. The tentative dates are given in the timeline on the last page of this syllabus. They are all free response, and you have to show all your work to earn full credit. Students are not allowed to use their own notes during exams. The tentative testing schedule is given in the timeline at the end of this syllabus. No make-up exams will be given and any missed exam will receive a grade of zero. Exams will be based on examples worked in class, assigned homework, and quizzes.

Computer Component: We will spend a portion of our time 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. Minitab software and the data sets needed for the class are available in the Math Center, CMS 121. The student version of Minitab and the data Disc are included with every new textbook 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

Final: The final exam is comprehensive. It will be on Thursday July 11th from 10:35-12:35 PM. There are no make-ups for the final. 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.

Calculators: Any scientific calculators with statistical functions may be used. No graphing calculator, cell phone, IPOD, tablet or hand held computers are allowed during in class quizzes or exams.

Grading: Final grades will be based on:
- Four Quizzes – 12%
- Four Exams – 52%
- Mini-Tab Final – 10%
- Final – 26%

Your grade in the course is determined according to the following scale:

A: 90-100%	B: 80-89%	C: 70-79%	D: 60-69%	F: 59% and below

For borderline cases attendance, participation, and level of improvement on the final are considered.

Tutoring: The Math Center located in CMS 121 is available for free drop in tutoring. The hours of the Center for the summer session are: M-Th 9 AM – 6 PM.

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.

Student Learning Outcomes: By the end of the course, the successful student will be able to:
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: Regular and punctual attendance is expected from all of us. Unexcused absences of 2 or more may result in excluding students from class. Unlike most other courses, missing just one mathematics class will immediately place you at a disadvantage because it is difficult, if not impossible, to catch up on the missed material by yourself. You are responsible for all material presented and discussed in every class meeting.

Withdrawals: If you stop attending the class (or wish to drop a class) on or before July 6th, <u>you must drop the class yourself – officially</u> – in person through the Admissions Office or through the internet. Failure to do so may result in a grade of "F" in the class. Please take note of important dates noted on the next page. **A new state policy in effect as of 2012 limits students to three attempts per course. Receiving a grade or a "W" for a course counts as an attempt, regardless of when the course was taken. Withdrawal by the deadline to avoid a "W" will not count as an attempt. For this class the deadline to avoid a "W" is Thursday, June 13th.**

Cell Phones: Please turn off your phones before coming to class. Class time is for learning and interacting with me and your classmates, not for personal or business calls. 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/quiz may result in a score of zero for that exam/quiz.

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.

Student Conduct: Students are expected to adhere to all school policies, and to abide by the standards of student conduct. Any infringement upon the rights of the other students in the class, such as talking or disruptive behavior will not be tolerated.

Miscellaneous: To be successful in this and any other math class, expect to spend **a minimum** of two hours for every class hour. Learning Math requires the same skills as learning to play an instrument or a sport. If you have prior engagements such as work and a full load schedule, it will affect your success in this class. Please stop by my office any time or get in touch with me through email and let me know how I can help you. The majority of the learning that you do in college courses takes place outside of class. What you get out of this class is a function of what you put into it. Mathematics is not a spectator sport. You have to put in the work to see the results!

Important Dates for Summer 2013

Last day to add classes: Thursday, June 13
Last day to drop 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 from 10:35 AM –1 2:35 PM.

Resources Available to Students at LA Mission College:

- **Bookstore:** For hours of operation, book availability, buybacks, and other information call (818) 364-7798 or 364-7768 or visit: http://www.lamissionbookstore.com/

- **Counseling Department:** For appointments and information call (818) 364-7655 or visit http://www.lamission.edu/counseling/

- **Disabled Students Programs and Services:** For appointments and information call (818) 364-7732 or visit http://www.lamission.edu/dsps/

- **Extended Opportunity Programs and Services**: For appointments and information call (818) 364-7645 or visit http://www.lamission.edu/eops/

- **Financial Aid:** For information and applications call (818) 364-7648 or visit http://www.lamission.edu/financialaid/

- **Library:** For information on library hours, resources, workshops, and other services contact (818) 364-7105 or 364-7106 or http://www.lamission.edu/library/

- **Tutoring Services in Learning Center:** Laboratories for Learning, Writing, Math & Science. Walk-in and appointment services offered. Call (818) 364-7754 or visit http://www.lamission.edu/learningcenter/

- **Math Center:** Free Math tutoring, computer and internet access. Call (818) 364-7811 or visit http://www.lamission.edu/mathcenter/

For any other questions/concerns that arise throughout the semester, please feel free to get in touch with me, and I will try to guide you to the appropriate place.

Success and Study Tips:

1. **Attend class--** Choose to attend all class periods on time and don't leave early. If you are absent on a day that a quiz is given, you lose the points for that quiz. Also, knowledge in any math class is extremely cumulative. What you miss one day will continue to hurt you throughout the rest of the course.

2. **Pay attention**-- Pay attention in class, participate in class discussions, and ask questions. The instructor regularly gives away tips for exams and quizzes, so make sure you take note of them.

3. **Do all homework--** Do or attempt all homework not for the sake of just doing it, but trying to understand the concepts, learning them in the process. "Practice makes perfect" applies not only to music and sports, but also in mathematics. Be sure to schedule sufficient time to complete your assigned tasks before the next class period. If you think you have not time to do your homework, ask yourself if you have time to take the class over.

4. **Get help--** Know how to get help if you need it. Consult instructor during posted office hours. These hours are for you to visit me and ask questions and express any concerns you have. Use the resources available to you for free (especially the Math Center which provides drop-in Math tutoring).

5. **Keep up with all work--** Getting behind will "snowball" on you very rapidly. Do all your homework on a daily basis.

6. **Study math everyday--** Don't leave all the work until the weekend. No one can "digest" so much math all at once, no matter how much time you spend trying. Math is best studied in bite-sized, digestible pieces. That means studying a few hours every day.

7. **Read the text--** Reading your math text should be done slowly and carefully… it doesn't read like a novel or a magazine. It is important that you learn the language of math; you cannot succeed in any math course without learning to express yourself in that language. Only by reading your text carefully and regularly can you learn it. Also, make sure to check the additional resources available at the beginning or the end of the textbook

8. **Get Organized--** Organize your class materials, including homework assignments, graded quizzes and tests, notes and any worked out review problems. These items will make valuable references when studying for upcoming tests and the final exam.

9. **Find other students to study with**. Group work can be very productive, and is very much encouraged. You'll be given opportunity to work in a group so exchange email and phone numbers with a couple of students in the class.

   Name:_____ Email:_____ Phone:_____

   Name:_____ Email:_____ Phone:_____

10. **Strive for understanding not just remote memory**. Understanding greatly enhances your ability to comprehend later material. Memory is unreliable, and temporary. Understanding is intense, never lost…and exciting!

Math 227 Summer 2013 Tentative Schedule

Week	Date	Monday	Tuesday	Wednesday	Thursday
1	June 10 – June 13	Orientation; Ch 1	**Quiz 1** (Ch 1); Ch 2	3.1 – 3.4	**Exam 1** (Ch 1 & 2); Mini-Tab Computer Lab Ch 2 & 3
2	June 17 – June 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 – June 27	**Quiz 3** (Ch 5); 6.3 – 6.4	Mini-Tab Computer Lab Ch 4, 5 & 6	7.1 – 7.2	**Exam 3** (Ch 5 & 6); 7.3
4	July 01 – July 04	**Quiz 4** (Ch 7); 8.1 – 8.2	8.3 – 8.4	Mini-Tab Computer Lab Ch 7 & 8	***Independence Day Holiday***
5	July 08 – July 11	**Exam 4** (Ch 7 & 8); 10.1 – 10.2	Mini-Tab Computer Lab Final	**Final Review**	**Final Exam (10:35 AM-12:35 PM)**