

**Math 227 Section 3108**  
**MTWTh 3:40 to 7:00 p.m.**

**Statistics**

**4.0 units**

**Summer II 2014**

**Location: HFAC 107**

### **Instructor Information**

Eykher, Mikhail

Website: MyStatLab.com

Office Hours: Monday to Thursday 2:50 to 3:35 p.m.

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CMS 121

### **Textbook, Courseware, and Statistical Software**

Fundamentals of Statistics, Informed Decisions Using Data, by Michael Sullivan III, fourth edition.

The required courseware, MyStatLab, includes the e-book. The online website MyStatLab (standalone) is approximately \$100. The textbook bundled with MyStatLab from the LAMC bookstore is approximately \$115 which is a special deal that the bookstore worked out with the book publisher. Reading your textbook is expected especially at the transfer level. Unless you are using your laptop along with your computer, it is uncomfortable and tiresome to switch screen constantly when you work on your assignments. Since this is a transfer level course and the use of technology is an essential part of this class, **I strongly recommend you to purchase the custom bundle from the bookstore.** Do not purchase textbook online or at other bookstores because the access code for MyStatLab will not be included. In that case, students will have to purchase the access code for MyStatLab separately online or from the bookstore.

This course using MyStatLab will open on Monday, July 21.

We will have a hands-on introduction of the courseware on our 1<sup>st</sup> class meeting.

We will use StatCrunch which is embedded in MyStatLab for our web-based statistical software.

### **Prerequisite**

Successful completion of Math 125 or a passing score of the math placement test.

### **Course Objective**

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 population mean and proportion.

### **Course Structure**

All incomplete lecture notes are posted online. Students are expected to printout the lecture notes and fill in the missing parts by viewing my PowerPoint lectures. After each lecture, you are expected to complete the corresponding online written homework, online technology homework, and online quizzes. Three attempts for answer submission per HW question are allowed. Students can do a similar exercise to regain points missed for homework before the due date. MyStatLab will provide immediate feedback with tutorial resources for your online homework assignments. Students are expected to finish their online assignments by the stated due date shown online. A 25% deduction per day will be implemented for late HW submission. Since MyStatLab does not grade each step of a student's work, it is important that students write down their solving steps clearly on a notebook in order to identify mistakes made. No immediate feedbacks will be given and no late submission will be accepted for online quizzes. However, you are allowed to take an online quiz with multiple attempts before the due date. Three to five tests will be give for this course. Tests can be a combination of technology and written responses. The final exam is comprehensive. All work must be shown in a logical manner with easy to follow steps to support any written responses for credits. In order to expose students to real life or messy data and allow students to apply the statistical methods learned in this class, at least two projects will be assigned for this course. This is a rigorous transferrable math course.

### **Technology**

With the provided StatCrunch handouts the class will use StatCrunch to present graphs and data summary, to perform simulations, and to solve statistical application problems. StatCrunch is a technology tool to replace tedious calculations. However, choosing what statistical methods should be applied for each application problem and providing correct analysis and interpretation for each statistical result are the essential part of this course.

## 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.

## 3 Attempt Limit (New Regulation)

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**. Withdrawal by July 23, 2014 (avoiding a "W") will not count as an attempt.

## Important Dates

Last day to add this short term class	July 23
Last day to drop without a "W" (internet)	July 23
Last day to petition for credit/no credit	July 23
Last day to drop with a "W" (internet)	Aug 13
Final Exam	Aug 21

## Attendance

Students are expected to attend all class meetings. You could be dropped after 3 absences but it is your responsibility as a student to drop a class if you decide to quit a class.

## Student Conduct

Students are expected to adhere to all school policies, and to abide by the standards of student conduct as described in the 2013-2014 College Catalog on page 36. Any infringement upon the rights of other students in the class setting such as disruptive behavior will not be tolerated.

## Cheating:

Any form of academic dishonesty will not be tolerated. If any students caught cheating, for example, any work that is not the student's or that the student has allowed others to copy, will receive an automatic "F" for the assignment or the course. The event will be reported to the Math Department Chair who will forward the report to the VP of student services for disciplinary action.

Reference to 2013-2014 College Catalog, p.36, Standard of Student Conduct and Disciplinary Action.

## Testing:

Questions on quizzes, tests, and final examination will be based on examples presented in the PowerPoint presentation, assigned homework, and StatCrunch result analysis. You are allowed to use a scientific calculator and a formula sheet provided by the textbook on exams. Cellular phones, Ipods, Ipads, and graphing calculators are not allowed on exams. All tests and final exam will follow the tentative schedule as closely as possible (see next page). There will be no make-up quizzes, tests, or final exam. Two lowest quiz scores will be dropped and if the final exam score is higher than the lowest score of the tests, it will be used to replace the lowest test score.

## Tutorial Service for this class

Free tutoring is available at the Stem Center, which is located in CMS 121.

Please call the STEM center for their operation hours for the summer.

Phone: (818) 364-7811 or visit [www.lamission.edu/mathcenter](http://www.lamission.edu/mathcenter).

## Grading

Percentage Distribution		Assigned Grade	
Homework (Online/Tech.)	19%	90 - 100%	A
Quizzes	8%	80 - 89%	B
Projects	6%	70 - 79%	C
Written Tests	45%	60 - 69%	D
Final	22%	below 60%	F

## Course Organization

The course will follow the tentative schedule as closely as possible.

Week	
1 (07/21 to 07/24)	<p>Monday Introduction of MyStatLab, Chapter 1 (Ch1.6 - Optional)</p> <p>Tuesday Chapter 2, Introduction of StatCrunch</p> <p>Wednesday Chapter 3 (Ch3.3 - Optional)</p> <p>Thursday Review, Introduction of Data Exploration, My Group, My Report</p>
2 (07/28 to 07/31)	<p>Monday Chapter 4.1 to 4.2 (Skip Ch4.3 to 4.4) Brief Introduction, Use StatCrunch</p> <p>Tuesday Project I (Data Exploration)</p> <p>Wednesday Test I (Online and Technology - Ch1 to Ch4 ), Chapter 5.1 to 5.3</p> <p>Thursday Chapter 5.4 to 5.6</p>
3 (08/04 to 08/07)	<p>Monday Chapter 6.1</p> <p>Tuesday Chapter 6.2, Chapter 7.1 to 7.2 (Prob. of a normal random variable)</p> <p>Wednesday Chapter 7.1 to 7.2 (Value of a normal random variable) Chapter 7.3 -Use StatCrunch, Skip Ch7.4</p> <p>Thursday Chapter 8.1, StatCrunch for Ch6 to 7</p>
4 (08/11 to 08/14)	<p>Monday Test II (Written Test - Ch5 to Ch7), Project II (Simulation)</p> <p>Tuesday Chapter 8.2, Chapter 9.1</p> <p>Wednesday Chapter 9.2, Chapter 10.1 to 10.3 (Classical Approach)</p> <p>Thursday Chapter 10.1 to 10.3 (P-Value Approach)</p>
5 (08/18 to 08/21)	<p>Monday Review, StatCrunch for Ch8 to Ch10</p> <p>Tuesday Test III (Written Ch8 to Ch10), Project III</p> <p>Wednesday Final Review</p> <p>Thursday Final Exam (4:00 p.m. to 6:00 p.m.)</p>

## 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://eagleslanding.lamission.edu/>
- **Counseling Department:** For appointments and information call (818) 364-7655 or visit <https://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 visit <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/>
- **STEM Center:** Free Math tutoring, computer and internet access. Call (818) 364-7811 or visit <http://www.lamission.edu/mathcenter/>
- **STEM Program:** For those interested in pursuing a science, technology, engineering and math, please call the STEM counselor Marina Sangkavichai at (818) 833-3425 or visit <http://www.lamission.edu/stem/>
- **Student Service Resources:** For a directory of student resources, visit <http://lamission.edu/de/student-services/>