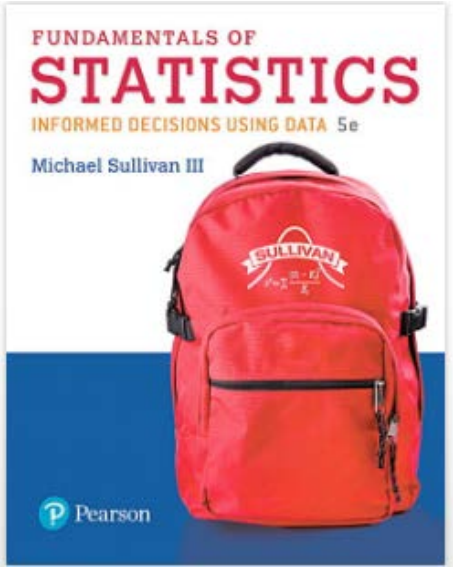
**Fall 2017**
**Section 25669**
**Section 26764**
**Location: CMS 120**

**Math 227** **Statistics, 4.0 Units.**
**Lecture** **MW 12:15 am - 1:40 am**
**Lab** **MW 1:50 pm -2:45 pm**

**Instructor Information**


Instructor: Emil Sargsyan
Website: MyStatLab.com (Course ID: **sargsyan67442**)
Office Hours: M: 8:30-9:10AM, 3-5PM, T: 12:10-12:30PM, W: 8:30-9:10AM, TH: 3:10-5:10PM

Phone: (818) 364-7898
Email: sargsye2@lamission.edu
Office: CMS 124, #136


**Textbook, Courseware, and Statistical Software**

*Fundamentals of Statistics, Informed Decisions Using Data,* by Michael Sullivan III, 5th edition. The required courseware, MyStatLab, is approximately $104 with the e-book. The textbook bundled with MyStatLab from the LAMC bookstore is approximately $124.50+tax 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.

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

**Prerequisite**

MATH 125 or MATH 123C or MATH 134 or MATH 137

**Important Dates:**

| | |
|---|---|
| Last day to ADD full term (16-week) classes in person: | September 10 |
| Last day to drop without receiving a "W" (By Internet Only): | September 10* |
| Last day to drop with a "W" (By Internet Only): | November 19 |
| Final Exam: | Monday, December 11, 12:30 pm – 2:30 pm |

***PLEASE NOTE:** A "W" will appear on your transcript record after this date. **REMINDER:** Course repetition is regulated by state guidelines, limiting students to a maximum of three (3) enrollments in a course, to include both substandard grades and withdrawals, unless otherwise specified in the course description.

**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 population mean, proportion, and standard deviation, inference about two population proportions and means, tests for independence and the homogeneity of proportions, and ANOVA.

**Course Organization:**

Math 227 is not a traditional lecture based class. StatCrunch, a statistical software, is used intensively in lectures, online built-in assignments, lab activities, and assessments. In order to pass Math 227, students must attend both the class lecture and the lab per class meeting. During the lab hour, students will work on lab activities independently in the computer lab. It can be ether group or individual assignments. The instructor is available to handle individual questions, offer mini-lectures, and establish some collaborative learning environment. The lecture and the lab will follow the tentative timeline (on the last page) 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 three meetings may result in excluding students from class. Students themselves are responsible for dropping a class they no longer attend.
The procedures for dropping classes are detailed on page 46 of the 2017-2018 Los Angeles Mission College Catalog.

**Withdrawals:**

If you stop attending the class (or wish to drop a class), you must drop the class yourself – officially – on or before November 19, 2017 (online only). Failure to do so may result in a grade of "F" in the class. 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 fall 2017, the deadline to avoid a "W" is **September 10.**

**Tools:**

A scientific calculator with statistical functions is required. Cell phones, and other forms of hand held computers are not allowed during in-class assessment, unless permission is given by the instructor for specific tests or assignments.

**ONLINE Assignments and Quizzes through MyStatLab:**

- Students need to have easy access to a computer with Internet access and a working email address. Students enrolled in Math 227 are required to purchase access to MyStatLab, an online courseware, and enroll in the section with **course ID: sargsyan67442**. Online homework and technology assignments and quizzes will be assigned online through this system. Assistance in registering/purchasing the access code will be available the first day of class.
- Students should work on their homework as each section is completed in class. 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 submission for homework questions scored after the due date. 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.
- Students are allowed to take an online quiz with multiple attempts before the due date. **No extensions will be granted for online quizzes.** Instructor may require students to turn in all written work per quiz to support answers submitted through MyStatLab. Points may be deducted if work was not shown in a clear and organized manner and labeled neatly for each problem. The lowest quiz score will be dropped.

**Lab Activities:**

- Diverse topics in this course will be covered using Stat Crunch software during the lab: to present graphs and data summary, to perform simulations, and to solve statistical application problems, etc.
- Students will work on the lab assignments each day in class. Lab assignments are available in MyStatLab and it is students' responsibility to bring the print out of the assignment to the class. Lab assignments will be collected and graded regularly. If you are absent, you will receive 0 point for that particular assignment. The lowest lab score will be dropped.

**Projects:**
There will be two projects throughout the semester: Project 1 Exploring relationships between two variables & Project 2 Inferences on Two Population Parameters. More details will be communicated later.

**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 11.** There are **no make-ups for the final** and all students must take the final exam in order to pass the class. If the final exam score is higher than the lowest score of the classroom exams, it will be used to replace the lowest exam score.
- All exams will be based on examples worked in class, assigned homework and quizzes, and computer lab materials. All work must be shown in a logical manner with easy to follow steps to support any written responses for credits. A stand alone scientific calculator and formula sheets provided by the publisher are allowed on exams.

**Grading:**

| Percentage Distribution | | Assigned Grade | |
|---|---|---|---|
| Homework & Quizzes | 15% | 90 - 100% | A |
| Lab activities | 10% | 80 - 89% | B |
| Two Projects | 10% | 70 - 79% | C |
| Four Exams | 40% | 60 - 69% | D |
| Final | 25% | below 60% | F |

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

**Cheating:**
Any form of academic dishonesty will not be tolerated. If caught, you will 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 as described in the 2016-2017 Los Angeles Mission College Catalog on page 62 to 64. Any infringement upon the rights of other students in the class, such as talking or disruptive behavior will not be tolerated.

**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 on silent mode and kept out of sight while in class. Cell phone ringing and text messaging create distractions.
- 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.

**Tutoring and Support:**
- Free math tutoring is available in the STEM Center and Science Center located in CMS 121: Monday thru Thursday 11:00 am-7:00 pm or in the LRC Math LAB: Monday thru Thursday 9:00 am-6:00 pm and Friday 10:00 am -4:00 pm.
- For more information, call (818) 364-7811 or visit http://lamission.edu/mathcenter/. Please check the LRC MathLab hours through http://www.lamission.edu/learningcenter/.

**Accommodations for DSPS students:**
LAMC students with verified disabilities who are requesting academic accommodations should use the following procedure:

Step 1: Obtain documentation of your disability from a licensed professional. You may contact DSPS to request a Disability Verification Form.Step 2: Make an appointment to meet with a DSPS Specialist to review your documentation and discuss reasonable accommodations. To schedule a meeting, please call DSPS at (818)364-7732.

Step 3: Bring your disability documentation to your DSPS appointment. The DSPS office is located in room 1018 of the Instructional Building.

Step 4: Each semester, reach written accommodation agreement with the DSPS Specialist and your instructor.

To be most effective, students should complete this process by the end of the 3rd week of the semester. Tests with required accommodations must be taken at the DSPS office.

**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.

## Resources Available to Students at LA Mission College:

- **Management of Stress and Mental Health:**
  If you, or someone you know is in distress due the pressure of succeeding in school and contending with work, financial issues, relationships, managing time effectively, getting enough sleep, etc., please visit the Student Health Center (SHC), which offers a broad range of confidential student services including counseling and mental health services. The SHC is located in the Bungalow just west of the Collaborative Studies Building. The SHC webpage is www.lamission.edu/healthcenter and the phone number is 818-362-6182. The National Suicide Prevention Lifeline number is 800-273-8255.
  *** Please note that the SHC is slated to move into its new location, between the President's Office and Administrative Services, in the Spring 2016 semester.**

☐ **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. 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/

☐ **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/

**Math 227 Tentative Schedule**

| Week | Date | Monday | Wednesday |
|---|---|---|---|
| 1 | Aug 28 / Aug 30 | Ch1.1 to 1.6 & Intro to MyStatLab<br>Lab 1A & 1B | Ch2.1 to 2.3<br>Lab 2A & 2B |
| 2 | Sept 04 / Sept 06 | ***Labor Day*** | Ch3.1 to 3.3<br>Lab 3A |
| 3 | Sept 11 / Sept 13 | Ch3.4 to 3.5<br>Lab 3B & 3C | Ch4.1 to 4.2<br>Lab 4A & 4B |
| 4 | Sept 18 / Sept 20 | **Project 1 Introduction** &<br>Review | **Exam 1 (Ch 1 to 4)**<br>Work on Project 1 |
| 5 | Sept 25 / Sep 27 | Ch5.1 to 5.2<br>Lab 5A | Ch5.3<br>Lab 5B |
| 6 | Oct 02 / Oct 04 | Ch. 5.4 | 6.1, 6.2; Labs 6A, 6B<br>**Project 1 Due** |
| 7 | Oct 09 / Oct 11 | 7.1-7.3<br>Labs 7A, 7B | Review<br>Lab Catch up |
| 8 | Oct 16 / Oct 18 | **Exam 2 (Ch 5 to 7)** | Ch8.1 to 8.2<br>Lab 8A |
| 9 | Oct 23 / Oct 25 | Ch9.1 to 9.2<br>Lab 9A | Ch9.3<br>Lab 9B |
| 10 | Oct 30 / Nov 01 | Review<br>Lab Catch up | **Exam 3 (Ch 8 & 9)**<br>**Project 2 Introduction** |

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|---|---|---|---|
| 11 | Nov 06 / Nov 08 | Ch10.1 to 10.2<br>Lab 10A | Ch10.3 to 10.4<br>Lab 10B |
| 12 | Nov 13 / Nov 15 | Ch11.1 to 11.2<br>Lab 11A | Ch11.3 to 11.4<br>Lab 11B |
| 13 | Nov 20 / Nov 22 | Review<br>Catch up and Work on Project 2 | **Exam 4 (Ch 10 & 11)**<br>Work on Project 2 |
| 14 | Nov 27 / Nov 29 | Ch12.1 to 12.2<br>Lab 12A | Ch12.3 to 12.4<br>Work on Project 2 |
| 15 | Dec 04 / Dec 06 | **Project 2 Due** & Final Review | Final Review |
| 16 | Dec 11 / Dec 13 | **Final Exam**<br>Monday, December 11, 12:30 am-2:30 pm | |