

Math 227 Statistics Syllabus

Fall 2023 LOS ANGELES MISSION COLLEGE

Class Information

ZOOM:

- Section 13920 (Lecture): Mon and Wed 7:00 PM to 8:25 PM : Location: Zoom
- Section 14184(Lab) : Mon and Wed 8:35 PM to 9:25 PM: Location: Zoom

IN PERSON

- Section 13921 (Lecture): Mon and Wed 7:00 PM to 8:25 PM : Location: CMS 222
- Section 14184(Lab): Mon and Wed 8:35 PM to 9:25 PM : Location: CMS 222

In

Instructor information

- Instructor: Ralph (Randy) Ades
- Phone number: 818-364-7600 ext 4900
- Email: adesrl@lamission.edu
- Office hours & location: MW 5:00PM - 5:30PM,nd Location CMS 247 a TuTh 2:00PM-2:30PM at CMS122

Course materials

Required Courseware with eText and Statistical Software

MyStatLab access code for Statistics: Informed Decisions Using Data, 6th Edition (by Michael Sullivan)

All students are required to purchase a MyStatLab access code since all learning resources including eText and assignments are provided in MyStatLab. Students may purchase the access code online within Access Pearson (MyStatLab) after they log into Canvas or at the [LAMC bookstore](#). StatCrunch, a web-based software embedded in MyStatLab will be used for statistical analysis.

Optional materials

A physical textbook is optional.

General information

In this class, you will learn basic statistical concepts and techniques through Canvas and Access Pearson (MyStatLab). Student registration instruction on MyStatLab with Canvas is included in the syllabus. Please read all the information carefully in this syllabus. If you have any questions, please do not hesitate to contact the instructor via Canvas Inbox or email.

Prerequisites

Intermediate algebra, the equivalent or higher, completed at the secondary or post-secondary level; or by meeting CA Title 5 CCR § 55063 math competency requirement of intermediate algebra, per LACCD AP4100.

Course Description

Course covers descriptive statistics, basic probability theory and inferential statistics with emphasis on understanding statistics methods. Topics include summarizing data; descriptive statistics; probability; discrete distributions; continuous distributions; sampling distributions; estimation and confidence intervals; hypothesis testing and inference; correlation and linear regression; analysis of variance (ANOVA), chi-square and t-tests; applications using data from disciplines including business, social sciences, psychology, life science, health science, and education. The use of technology such as Excel, Minitab, or StatCrunch is integrated into the course to perform statistical analysis and the relevance of the statistical findings is interpreted.

Course Organization

Math 227 is not a traditional lecture-based class. StatCrunch, a statistical software, is used intensively in lectures, online built-in assignments, projects, and assessments. To pass Math 227, students must attend both the class lecture and the lab per class meeting. During the lab hours, students will work on the lab activities related to the projects and complete the technology demo assignments. The instructor is available to handle individual questions, offer mini-lectures, and establish a collaborative learning environment. The course will follow the tentative timeline as closely as possible.

Student Learning Outcomes

Upon completion of this course, a successful student will be able to:

1. Critically analyze descriptive statistics by reading charts, graphs and results of statistical analyses.
2. Choose the appropriate technique, and use technology to perform the necessary calculations for statistical analyses.
3. Interpret results of inferential statistical calculations for Confidence Intervals, Hypothesis Testing, and Regression Analysis.

Assignments and Grading Policies

Online Assignments and Quizzes through MyStatLab

- Students enrolled in Math 227 are required to purchase access to MyStatLab, an online courseware, and enroll in the section connected to Canvas. Online homework, Quizzes, technology demo and practice exams will be assigned through MyStatLab.
- Students are expected to finish their online homework assignments by the due date. You will be granted the opportunity to submit the homework assignments past the due date up to 2 days later, without a penalty.
- Students can take an online quiz with multiple attempts before the due date. The lowest quiz score will be dropped. No extensions will be granted for online quizzes.

Project/Lab Discussions

- Students will work on the project with real world applications and work on the discussion assignments during the lab. Project will require students to use data and statistical techniques learned in the class to make important decisions. More details will be communicated later.

Exams

- There will be four 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 **12/11/2023**. The final exam will be given through MyStatLab, and computations and analysis will be done using StatCrunch. No make-up final will

be allowed, and all students must take the final exam 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, quizzes, and tech demo assignments. A stand-alone scientific calculator, formula sheets provided by the publisher, and StatCrunch Procedures Summary (StatCrunch Help) are allowed on exams.

Grade Categories

| Category | Weight |
|---------------------------|--------|
| Homework | 15% |
| Quizzes | 8% |
| Tech Demo & Practice Exam | 7% |
| Projects & Lab Activities | 10% |
| Four Exams | 35% |
| Final | 25% |

Grades Distribution

| Percentage | Grade |
|------------|-------|
| 90 - 100 % | A |
| 80 - 89 % | B |
| 70 - 79 % | C |
| 60 - 69 % | D |
| Below 60 % | F |

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

Important Dates

Last date to enroll with a permission number:

09/10/2023

Last date to drop this class without a "W":

09/10/2023

Last date to drop with a "W" (By Internet Only):

11/19/2023

Final Exam:

12/11/2023, 8:00 PM to 10:00PM

REMINDER: Course repetition is regulated by state guidelines, limiting students to a maximum of three enrollments in a course, to include both substandard grades and withdrawals, unless otherwise specified in the course description.

For other important dates, you can check out [Fall 2023 Calendar](#)

Policies/Expectations

Student Conduct and Discipline

Dishonesty, such as cheating or plagiarism, are violations of District policies and may result in disciplinary action. Student conduct and disciplinary policies (and students' rights regarding these policies) are detailed in [BP 5500](#) Standards of Student Conduct and [AP 5520](#) Student Discipline.

Cheating

Unauthorized material used during an examination (including electronic devices), changing answers after work has been graded, taking an exam for another student, forging or altering attendance sheets or other documents in the course, looking at another student's paper/scantron/essay/computer or exam with or without their approval is considered cheating. Any student caught cheating will receive a zero for the assignment/exam and be referred to the Department chair and/or Student Services for further disciplinary action.

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 in Los Angeles Mission College Catalog.

Withdrawal

If you stop attending the class (or wish to drop a class), you must drop the class yourself through the student portal - officially - on or before **11/19/2023**. Failure to do so may result in a grade of "F" in the class. The state policy 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 2023, the deadline to avoid a "W" is **09/10/2023**.

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 phones 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.

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.

Study the textbook

The textbook (eText) provides a reasonable level of mathematical rigor, and many exercises are quite revealing. 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.

*Caution: The textbook uses tables, but our lectures and all homework assignments use StatCrunch. You can also use StatCrunch for quizzes and tests.

Instructor Communication Policy:

The preferable way to communicate with me is through emails using Canvas Inbox or adesrl@lamission.edu. Please be clear and specific with your questions or concerns. I will respond within 24 to 36 hours.

Netiquette (online etiquette) Guidelines

Please treat contributions made by your classmates with respect. For more information, read [Netiquette Rules for Canvas](#).

Additional information and resources

Tutoring and Support

- Topic -specific supports are available through (noncredit) Academic Preparation: ACAD PR 027CE Statistics Skills and Preparation I and ACAD PR 028CE Statistics Skills and Preparation II. Students are highly encouraged to attend these sessions for their successful completion of Math 227.
- Free math tutoring is available via. LAMC LRC Math Center. For the virtual tutoring session, you can find the [LRC Canvas course](#). Please visit the [LRC website](#) for more information:
- Net Tutors-24/7 online tutorial services that students can access through Canvas.
- Math 227 Tech Demo -Video Solutions created by LRC Math Center are available: [Math 227 \(Statistics\) Technology Demo Tutorials](#)

ADA/Disability Policies (including information on services available through DSPS office)

- [ADA/Disability Accommodations](#): LAMC is committed to providing equal opportunity to all students. If you have, or think you might have, a disability-related educational limitation, please contact the DSP&S Office. DSP&S provides special assistance in areas such as registering for courses, specialized tutoring, note-taking, mobility assistance, special instruction, testing assistance, special equipment, special materials, instructor liaisons, community referrals and job placement.
- Requesting accommodations for DSPS students: LAMC students with verified disabilities who are requesting academic accommodations should use the following procedure:
 1. Obtain documentation of your disability from a licensed professional. You can use the [LAMC Disability Verification Form](#). Students exiting high school can use their IEP as a qualifying document.
 2. Make an appointment with a Disabled Students Programs and Services (DSP&S) Counselor or Specialist to review your documentation and discuss reasonable accommodations. Please call DSP&S at (818) 364-7732 or use the Online Counter Support on the [DSP&S page](#) to schedule an eCounseling appointment.
 3. Bring your disability documentation to your DSP&S eCounseling appointment, which will be held through Cranium Café. Be sure to use a laptop or computer with Chrome or Firefox (no smart phones) and a working video camera and microphone.
 4. Every semester, you are required to meet with your DSP&S Counselor to review your academic progress and accommodation letter. After meeting with them, your written accommodation agreement will be emailed to your professor(s).

Please complete this process in a timely manner to allow adequate time to provide accommodation. Students who have questions with technology accessing Cranium Café or the webpage should send an email to Online Counter Support for further assistance; send an email to DSPSinfo@lamission.edu or email to [Adrian Gonzalez](#).

*Accessibility: For help with alternate format please contact Adrian Gonzalez in DSPS at email: assistivetechrequest@lamission.edu. Any student requesting alternate format must be approved for the accommodation.

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 Student Services building, next to Business Office, and the phone number is 818-362-6182. The National Suicide Prevention Lifeline number is 800-273-8255.

[Basic Need Center](#): The Basic Needs Center supports students' well-being by providing referrals to various services.

[Associated Student Organization](#): Get involved in student government! Represent the student voice in campus government and organize clubs and events.

[CalWORKS](#): If you qualify for CalWORKS, you can get money for books/supplies and an array of support services to help you achieve self-sufficiency.

[Campus Sheriff](#): In the event of an emergency, you should call the campus sheriff; please put the number in your phone now: 818 364-7843

[Counseling](#): Do you know what classes you need to reach your educational goals? Create a roadmap to success with an academic counselor!

[Disabled Students Programs & Services](#): DSPS is committed to developing strategies that provide equal opportunity and promote academic success for students with disabilities.

[EOP&S](#): We help economically and educationally underrepresented students to achieve their educational goal(s). If you qualify, you will receive benefits such as academic counseling, Student Educational plans, priority registration, transfer assistance, tutoring, cash & book grants, meal vouchers, and assistance with technology.

[Financial Aid & Scholarships Office](#): Find out if you qualify for financial aid (including federal and state grants, loans, work-study jobs, and scholarships) by talking to one of our financial aid specialists.

[Foster and Kinship Care/Guardian Scholars Programs](#): If you are a foster youth, or a foster/resource parent, we can help you—in English or Spanish—with training and advocacy for parents and support services for former/current foster youth students.

[Honors Program](#): Want to increase your chances of acceptance into a University? Take an Honors class!

[Learning Resource Center](#): Visit the LRC to get tutoring (both individual and group), topic-specific workshops, and review sessions -- all free of charge!

Math Center: Free Math tutoring, computer and internet access are available. Call (818) 364-7811 or visit CMS 121.

[STEM Program](#): For those interested in pursuing a science, technology, engineering and math, please call the STEM Office at (818) 364-4161.

[Library](#): Gain access to a wide range of information resources -- books, eBooks, magazines, journals, and newspaper articles from LA Mission College.

[Program Mapper](#): Access the online system that helps you decide on a major, determine exactly what classes you need for the degree or certificate you desire, plan out your schedule, and more!

[Pathway Coaches](#): A Pathway Coach supports students throughout their college experience from beginning to end, helping them with enrollment, financial aid, counseling, tutoring, and basic needs.

[Student Portal](#): Update your email address, view your schedule and grades from past semesters through the portal.

Math 227 Tentative Schedule

| Week | Date | Monday | Wednesday |
|------|-------------------|---|---|
| 1 | Aug 29/ Aug 31 | Sections 1.1 to 1.3 & Intro to MyStatLab | Sections 1.4 to 1.5 Project 1 Intro. |
| 2 | Sept 05 / Sept 07 | Sections 2.1 to 2.4 | Section 3.1-3.2 |
| 3 | Sept 12/ Sept 14 | Sections 3.2, 3.4 | Sections 3.5 |
| 4 | Sept 19 / Sept 21 | Review | Exam 1 (Chapters 1 to 3) |
| 5 | Sept 26 / Sep 28 | Sections 4.1 to 4.2 Project 1 Due | Sections 5.1 to 5.2 Project 2 Intro. |
| 6 | Oct 03/ Oct 05 | Sections 5.2 to 5.3 | Sections 6.1 to 6.2 |
| 7 | Oct 10 / Oct 12 | Sections 7.1 to 7.2 | Sections 7.3 Review |
| 8 | Oct 17 / Oct 19 | Exam 2 (Chapters 4 to 7) | Sections 8.1 to 8.2 Project 2 Due |
| 9 | Oct 24 / Oct 26 | Sections 9.1 to 9.2 | Sections 9.3 |
| 10 | Oct 31 / Nov 02 | Review | Exam 3 (Chapters 8 & 9) |
| 11 | Nov 06 / Nov 8 | Sections 10.1 to 10.2 | Sections 10.3 to 10.4 |
| 12 | Nov 13 / Nov 15 | Sections 11.1 to 11.2 Project 3 Intro. | Sections 11.3 to 11.4 |
| 13 | Nov 20 / Nov 22 | Review | Exam 4 (Chapters 10 & 11) |
| 14 | Nov 27 / Nov 29 | Sections 12.1 to 12.2 | Sections 13.1 |

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|----|-----------------|---------------------------------------|--------------|
| 15 | Dec 04 / Dec 06 | Final Review Project 3 Due | Final Review |
| 16 | Dec 11 / Dec 13 | Final Exam 8:-00 PM - 10:00 PM | |

[Student Registration Instructions for Access Pearson with Canvas](#)

Enter Your Canvas Course:

1. Sign into Canvas and enter your Canvas course.
 - Go to <https://mycollege.laccd.edu>
 - Sign in with your organizational account.
 - Click Canvas
2. Do one of the following:
 - Select the Access Pearson in the Course Navigation.
 - Select Open Pearson or MyStatLab Course Home.

Get Access to Your Pearson Course Content:

3. Enter your Pearson account username and password to Link Accounts.
You have an account if you have ever used a Pearson MyLab & Mastering product, such as MyMathLab, MyITLab, MySpanishLab, MasteringBiology or MasteringPhysics.
 - If you do not have a Pearson account, select Create an account and follow the instructions.
4. Select an access option:
 - Enter the access code that came with your textbook or was purchased separately from the bookstore.
 - Buy access using a credit card or PayPal account.
 - You may click get temporary access without payment for 14 days by selecting the link near the bottom of the page:
5. From the You're Done page, select Go to My Courses.

Note: 1. You do NOT need a course ID since Canvas course is already linked to MyStatLab. If it asks for a course ID, simply close that screen and continue.

2. We recommend you always enter your MyLab course through Canvas.

Get Your Computer ReadyMy

For the best experience, check the [system requirements](#) for your product.

Need help?

For help with MyLab & Modified Mastering with Canvas, go to [student support](#)

Pop-ups

If you cannot view MyStatLab with Pearson eText Course Home, please consider disabling your browser pop-up settings to allow all pop-ups for MyStatLab.