

**MATH 227 (7430)**

**STATISTICS**

**SPRING 2016**

T – TH 8:00-9:25am, MS 114

**INSTRUCTOR:** Luis Enriquez

**E-mail:** [enriqula@lavc.edu](mailto:enriqula@lavc.edu)

**OFFICE HOURS:** T TH 12:10 – 1 PM in MS 112 or by e-mail.

(818) 947-2600 x8302

**TEXTBOOK:** Elementary Statistics, 2nd California Edition, by Mario F. Triola bundled with MyStatLab access code. Access to a computer with internet access, an Etudes-configured browser, and MyStatLab-configured browser installed.

**Supplementary Materials:** A scientific or **graphing calculator**. This calculator will be the only calculator allowed for exams. No cell phones!

**WEBSITE:** <https://myetudes.org/portal> and <http://www.mystatlab.com/> (Course ID: enriquez82792)

**PREREQUISITE:** A grade of C or better in Mathematics 125; or appropriate skill level demonstrated through the math placement process.

**COURSE DESCRIPTION:** This course uses technology to analyze data. Probability techniques, hypothesis testing, and predictive techniques are employed to facilitate decision-making by inferring population-level conclusions based on samples. Topics include descriptive statistics; probability and sampling distributions; statistical inference; correlation and linear regression; analysis of variance (ANOVA), chi-square and t-tests; and application of technology for statistical analysis including the interpretation of the relevance of the statistical findings. Applications using data from disciplines including business, social sciences, psychology, life science, health science, and education.

**COURSE OBJECTIVES (STUDENT LEARNING OUTCOMES):** Organize and summarize data in tabular, numerical, or graphical form. Assess the validity of a statistical argument by considering the means through which the data were collected, the quality of the data, and the appropriateness of the statistical methods used in the argument. Distinguish among different scales of measurement and their implications. Interpret data displayed in tables and graphically. Apply concepts of sample space and probability. Calculate measures of central tendency and variation for a given data set. Identify the standard methods of obtaining data and identify advantages and disadvantages of each. Calculate the mean and variance of a discrete distribution. Calculate probabilities using normal and t-distributions. Distinguish the difference between sample and population distributions and analyze the role played by the Central Limit Theorem. Construct and interpret confidence intervals. Determine and interpret levels of statistical significance including p-values. Interpret the output of a technology-based statistical analysis. Identify the basic concept of hypothesis testing including Type I and II errors. Formulate hypothesis tests involving samples from one and two populations. Select the appropriate technique for testing a hypothesis and interpret the result. Use linear regression and ANOVA analysis for estimation and inference, and interpret the associated statistics. Use appropriate statistical techniques to analyze and interpret applications based on data from disciplines including business, social sciences, psychology, life science, health science, and education.

**Plagiarism and Academic Dishonesty:** Plagiarism is the use of others' words and/or ideas without clearly acknowledging their source. When you incorporate those words and ideas into your own work, you must give credit where credit is due. Plagiarism, intentional or unintentional, is considered academic dishonesty and is not tolerated. Anyone found to be plagiarizing or cheating on assignments (e.g., copying or giving answers, using 'crib' sheets, etc.) will (1) receive a zero (fail) on the assignment, and (2) be referred to the Vice President of Student Services for further disciplinary action, following due process. For further information on plagiarism, go to the Writing Center website (<http://www.lavc.edu/writingcenter/handouts/plagiarism.html>) and refer to the STANDARDS OF STUDENT CONDUCT AND DISCIPLINARY ACTION in the current Schedule of Classes and Catalog.

**Hybrid Course:** This course is a hybrid course including both an online and an in-person component. The online component of the course will be administered via Etudes and myStatLab. Most graded assignments will be submitted via Etudes and myStatLab. In addition to these graded assignments, Etudes also includes a robust discussion forum which will be used to facilitate statistics-based critical thinking assignments.

**LAVC Virtual Valley:** The LAVC Virtual Valley website contains a great deal of helpful information for students embarking on their first journey into hybrid and online courses offered through LAVC. The LAVC Virtual Valley website is located at: <http://www.lavc.edu/virtualvalley/>. At the upper right-hand corner, students will find a link to “Class Login”. This will take you to Etudes. If you are having trouble logging in, there is very little that I can do to help you. Please contact the Virtual Valley helpdesk for further assistance.

**Etudes:** Etudes is a web-based teaching interface that we will be using in the hybrid portion of this course. The direct link to the Etudes homepage is: <https://myetudes.org/portal>. For Etudes-specific computer and browser configuration and support issues, please click on “System Requirements” on the left-hand side of the Etudes homepage. It is extremely important that you login today!

**How to Login to Etudes:** Access to classes is determined by semester start date and/or instructor preference. Student user IDs and initial passwords are automatically generated. Your unique username is: • First two letters of your first name, plus the • First two letters of your last name, plus the • Last five digits of your NEW student identification number. Your password is: • The Month and Day of your birthday, as given in the school records, with the format MMDD This password information applies to students accessing Etudes for the first time. Changes you make to your account, including your password, will persist to new semesters.

**Etudes inTouch iOS app:** The Etudes inTouch iOS app is available to access courses announcements, private messages, and discussions from your iPhone, iPod touch, or iPad.

**Online Statistics Discussion:** Students are required to participate in online discussions. In every discussion, students are required to express complete and detailed thoughts supported by statistical logic and reasoning. These complete thoughts may be original posts on the topic or responses to other students' original posts. Begin your discussion by clicking on my topic. Students should complete the online statistics discussions via Etudes. Additional information about the discussion grading is available in Etudes.

**Netiquette & Ground Rules:** Be respectful, constructive, supportive, and productive. No griping or whining. Expect to be misunderstood. Don't take other people's opinions personally. Ask questions and contribute.

**MyStatLab:** MyStatLab engages students in active learning—it's modular, self-paced, accessible anywhere with Web access, and adaptable to each student's learning style. All homework and quizzes will be administered through the MyStatLab.

**Homework:** Homework is an extremely important part of learning mathematics. It is nearly impossible to absorb mathematical concepts by merely watching others complete problems or explain concepts. There are homework assignments corresponding to each section of every chapter in the course. Each homework assignment must be completed online using MyStatLab. There are due dates for homework assignments, but prior to the due date, there are no time limits on the homework assignments.

**Quizzes:** Quizzes are designed to test your knowledge of the homework that has been assigned. If students attend class and do all of the homework, the quizzes will be easy. Each quiz must be completed online using MyStatLab. There are due dates for quizzes.

**How to Succeed in this Course:** In every college course, students are expected to study, do homework, complete papers, etc. outside of class. State standards state a unit of credit should require 3 hours of work per week by the student, thus a 4 unit course should demand, in addition to the traditional 4 hour lecture, 8 hours of reading, writing, lab and/or activities. I strongly recommend scheduling this time. I also strongly recommend that students spend a minimum of one (1) hour per day and a maximum of three (3) hours per day on math. I also recommend taking a short break after every hour. Some students find these recommendations shocking, but consider the fact that math is much more like a sport or a musical instrument than any other subject.

**ATTENDANCE POLICY:** The only students who may attend class are those who have been admitted to the college and are in approved active status and who are registered for the class. Students are expected to attend every meeting of all classes for which they are registered. Violation of this will result in exclusion from this class as specified in Administrative Regulation E-13. Provisions of Administrative Regulation E-13 include the following:

1. Students who have registered for a class and who do not attend the first meeting of the class forfeit their right to a place in the class.
2. Whenever absences exceed the equivalent of one week of classes, the instructor will exclude the student from the class.
3. Three cases of tardiness or leaving during class time will be considered equivalent to one absence.
4. It is the student's responsibility to consult with the instructor regarding any absences that would alter the student's status in the class.

Students are ultimately responsible for dropping the class should they choose to do so. Failure to do so may result in a grade of "F" in the class."

The instructor may consider whether there are mitigating circumstances which may justify excusing an absence. For those students on financial aid, instructors should keep documentation justifying any excused absence.

**CLASSROOM DECORUM:** Cell phones should always be turned off in class. You are expected to demonstrate respect and consideration towards your peers and instructor. Students who persist in talking during the lecture will be removed from the class.

**FOOD AND DRINK POLICY:**

1. Students are not allowed to eat or to bring open food containers into the classroom.
2. Students are not allowed to bring open liquid containers into the classroom. You can bring coffee with a lid, but one spill incident will result in "no coffee with lid" in the classroom subsequently.
3. Do not leave trash in the classroom. Throw out your trash in the trash bins in the hallway. However, throw out any food or food containers in the trash bins outside of the building.
4. No gum chewing is allowed in the classroom. Gum should be thrown in the trash bins, not deposited under the desks or chairs

**GRADING:** Grades will be based on the following:

Tests	45%
Final exam (comprehensive)	25%
Online quizzes	10%
Online Homework	20%

The Final exam is Thursday, June 2nd from 8:00 to 10:00 am in class.

**Grades will be determined as follows:**

<b>A:</b> 90-100%	<b>B:</b> 80- 89.99%	<b>C:</b> 70- 79.99%
<b>D:</b> 55- 69.99%	<b>F:</b> 0- 54.99%	

I strongly recommend that you keep all your work and exams until you receive your course grade in case you have questions concerning your class performance and to study for the final. There will be NO extra credit.

**Accommodation Statement:** If you are a student with a disability requiring classroom accommodations, and have not contacted SSD, do so in a timely manner. SSD is located in the Student Services Annex, Room 175 or call SSD at (818) 947-2681 or TTD (818) 947-2680 to meet with a SSD counselor. If SSD has already sent the memo to instructor confirming accommodations required by student for this class, please meet with me to discuss arrangements.

**Financial Aid:** Financial Aid is available! Call (818) 947-2412. Go to the Financial Aid Office in the Student Services Center, first floor. For more info:  
<http://www.lavc.edu/financialaid/index.html>

**ADD DATES:**

Feb. 19, 2016 LAST DAY TO ADD\* AND AUDIT  
BY INSTRUCTOR PERMIT ONLY

**DROP DATES:**

Feb. 21, 2016 (Sunday) Drop classes without incurring fees.  
Drop classes with refund of enrollment fees.  
Drop classes without receiving a "W." • by Internet Only

May 8, 2016 (Sunday)† Drop classes with a "W": • by Internet Only  
†Letter grade required from this date forward

LAST DAY OF REGULAR INSTRUCTION IS FRIDAY, MAY 27.

**HOLIDAYS:**

Feb. 12-15, 2016	President's Day
Mar. 31, 2016	Cesar Chavez Day
Apr. 1-8, 2016	Spring Break
May 30, 2016	Memorial Day

## Pearson's MyLab & Mastering Student Registration Instructions

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### To register for **MATH 227 TR 8AM SPRING 2016**:

1. Go to [www.pearsonmylabandmastering.com](http://www.pearsonmylabandmastering.com).
2. Under Register, select **Student**.
3. Confirm you have the information needed, then select **OK! Register now**.
4. Enter your instructor's course ID: [enriquez82792](#), and **Continue**.
5. Enter your existing Pearson account **username** and **password** to **Sign In**.  
You have an account if you have used a Pearson product, for example: MyMathLab, MyITLab, MyPsychLab, MySpanishLab or Mastering, such as MasteringBiology.  
> If you don't have an account, select **Create** and complete the required fields.
6. Select an access option.  
> Use the access code that came with your textbook or that you purchased separately from the bookstore.  
> Buy access using a credit card or PayPal account.  
> If available, get 14 days temporary access. (The link is near the bottom of the screen.)
7. From the confirmation page, select **Go To My Courses**.
8. On the My Courses page, select the course tile **MATH 227 TR 8AM SPRING 2016** to start your work.

### To sign in later:

1. Go to [www.pearsonmylabandmastering.com](http://www.pearsonmylabandmastering.com).
2. Select **Sign In**.
3. Enter your Pearson account **username** and **password**, and **Sign In**.
4. Select the course tile **MATH 227 TR 8AM SPRING 2016** to start your work.

### To upgrade temporary access to full access:

1. Go to [www.pearsonmylabandmastering.com](http://www.pearsonmylabandmastering.com).
2. Select **Sign In**.
3. Enter your Pearson account **username** and **password**, and **Sign In**.
4. Select **Upgrade access** from the course tile **MATH 227 TR 8AM SPRING 2016**.
5. Enter an access code or purchase access with a credit card or PayPal account.

For a registration overview, go to [www.pearsonmylabandmastering.com/students/get-registered](http://www.pearsonmylabandmastering.com/students/get-registered). Scroll down to **Need a little help?** and select a video