

**Math 227**  
**Class Syllabus Fall 2009**

**Course:** Math 227 Statistics  
Ticket Number 3254; Monday and Wednesday 3:40PM – 5:45PM, BUNG 10

**Instructor:** Ralph (Randy) Ades  
Office Hours: Monday and Wednesday 2:30PM-3:30PM or by appointment  
Office: Math Center (located in the Campus Center Lower Level)  
Phone: 4900 (from off-campus)  
Email: [adesr@lamission.edu](mailto:adesr@lamission.edu)

**Textbook:** Elementary Statistics, 4<sup>th</sup> edition, by Alan G. Bluman

**Prerequisite:** Math 125 with a grade of “C” or better or appropriate skill level demonstrated through the Mathematics assessment processes.

**Important Dates:**

September 7;	Labor Day; College closed.
September 11;	Last day to add a full term class.
September 25;	Last day to drop without a ‘W.’
November 6;	Last day for section transfers.
November 11;	Veteran’s Day, College closed.
November 20;	Last day to drop with a ‘W.’
November 26-29;	Thanksgiving Day;
<b>Final Exam:</b>	Monday, Dec 14 3:00 PM to 5:00 PM

**Course Description:** We will cover the following topics:

- Chapter 1: The nature of Probability and Statistics
- Chapter 2: Frequency Distribution and Graphs
- Chapter 3: Data Description
- Chapter 4: Probability and Counting Rules
- Chapter 5: Discrete Probability Distributions
- Chapter 6: Normal Distribution
- Chapter 7: Confidence Intervals and Sample Size
- Chapter 8: Hypothesis Testing
- Chapter 10: Correlation and Regression

**Course Objectives:** 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:**

1. Organize, describe, analyze, and interpret data through the use of statistical methods.
2. Use statistical concepts involving normal curve, confidence interval, and hypothesis testing to draw sound conclusions and make informed decisions.

3. Use the rules of probability to solve problems and interpret their results.

**Homework**

Hand-written and computer homework will be assigned. Students are responsible to complete the assigned homework as each section is completed. Hand-written and computer homework will not be picked up or graded.

**Exams**

- There will be four classroom tests. If the final examination score is higher than the lowest score of all tests, its percentage score will be used to replace the lowest test score. There will be **no make-up** examinations. Any missed exam will receive a grade of 0.
- There will be one computer-based exam covering all the lab materials.
- A comprehensive final exam will be given on **Monday, December 14**. There are **no make-ups** for the final and all students must take the final exam.
- All tests will be based on examples worked in class, assigned homework, and computer printout analysis.

**Grading:**

In-Class	8%
Tests	52%
Computer Test	10%
Final	30%

**Grading Scale:**

Letter grades will be determined by your overall percentage in the course:

- A = 90%-100%
- B = 80%-89.9%
- C = 70%-79.9%
- D = 60%-69.9%
- F = 0%-59.9%

**Attendance:**

Students are expected to attend all class meetings. Unexcused absences of four meetings may result in excluding students from class. Students themselves are responsible for dropping a class they no longer attend; failure to do so may result in a grade of F.

**Course Organization:** The course will follow the attached course schedule as closely as possible.

**Tutorial:**

Drop-in tutoring is available at the Math Center located in the basement of the Campus Center.

**Class comportment:**

All students are expected to arrive on time. Late arrivals are disruptive to both the lecturer and students. Once you are seated, do not leave the room until dismissed. Such comings and goings are also disruptive. Students must turn off cell phones while in class. 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. It is the student's responsibility to manage his or her 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.

**How to maintain “A”** Everyone starts the class with an “A”, so how do you keep it? First, it is very important to attend all class lectures. Second, in order to be good at math it takes practice, practice, and practice. This means you should do all of your homework and understand.

**Math 227 Elementary Statistics Tentative Schedule**

<b>Date</b>	<b>Monday</b>	<b>Wednesday</b>
Aug 31/ Sept 2	Orientation, Chapter 1	Ch. 2.1-2.3
Sept 7/ Sept. 9	<b>Holiday</b>	Ch. 2.4-3.2
Sept 14/ Sept. 16	3.3-3.5	<b>Exam 1 (Chapters 1-2)</b>
Sept. 21/ Sept. 23	Lab 1 (Chapter 2,3)	Chapter 4.1-4.3
Sept. 28/Sept. 30	Chapter 4.4-4.5	Chapter 4.6-5.2
Oct. 5/ Oct. 7	Review Chapter 3-4)	<b>Exam 2 (Chapter 3 &amp; 4)</b>
Oct. 12/ Oct 14	Ch. 5.3-5.5	Ch 6.1– 6.3
Oct. 19/ Oct. 21	Ch 6.4– 6.5	Ch 6.6– 6.7
Oct 26/ Oct 28	Review (Ch 5,6)	<b>Exam 3 (Ch 5, 6 )</b>
Nov 2 / Nov 4	<b>Lab II (Ch4-6)</b>	Ch 7.1– 7.2
Nov 9/ Nov 11	Ch 7.3– 7.4	Ch 8.1– 8.2
Nov 16 / Nov 18	Ch 8.3– 8.4	Ch 8.5
Nov 23 / Nov 25	Review (Ch 7, 8)	<b>Exam 4 (Ch 7, 8 )</b>
Nov 30 / Dec 2	<b>Lab III (Ch7, 8)</b>	<b>Lab IV (Ch 10)</b>
Dec 7 / Dec 9	<b>Lab V –Minitab Quiz</b> (Ch 7,8,10)	<b>Final Review</b>
Dec 14 / Dec 16	<b>Final Exam (3:00-5:00 pm)</b>	