

Class time: M, W 10:40 AM - 12:45 PM **Location:** CMS 236
Office Hours: M, W 10:10 AM - 10:40 AM **Location:** CMS 247
Instructor: Evinyan, Zarik **Email:** Evinyaz@lamission.edu
Telephone: 364-7600X4386
Text: Elementary Statistics by Allan G. Bluman, 6th Edition. A Brief Version
Tools: You will need a scientific calculator with statistical functions. I recommend the TI 30 XIIS. This is cheap and easy calculator.

Prerequisite: Successful completion of Math 125 or appropriate skill level demonstrated through the math placement test.

Course Description: We will cover the following topics:
Chapter 1: The Nature of Probability and Statistics
Chapter 2: Frequency Distributions and Graphs
Chapter 3: Data Description
Chapter 4: Probability and Counting Rules
Chapter 5: Discrete Probability Distributions
Chapter 6: The 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. 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.

Exams:

There will be four classroom exams. There will be **no make-up examinations under any circumstances**, and any missed exam will receive a grade of 0. In case if I decided to give you a make up quiz, then you have to take it at the beginning of class in my presence or I will drop the lowest quiz score and replace it with an average score of your other quizzes. A comprehensive final exam will be given on Wednesday, June 4. There are **no make-ups** for the final and all students must take the final exam. All exams will be based on examples worked in class, assigned homework, and computer lab materials.

Homework & Quiz: Homework from the textbook will be assigned regularly. Students are responsible to complete the assigned homework as each section is completed. Work **MUST** be shown and no credit will be given for a list of answers. Late homework will not be accepted. The assignments

will be collected on each exam day. Similar problems from homework will appear in the quiz and on the exam.

Computer Component:

Various topics in this course will be covered using Minitab software. Minitab software and the data sets needed for the class are available in all computers in the Math Center, LRC 205, LRC 234, and the LRC Computer Commons, and CSIT lab (INST #2009). The student version of Minitab and the data set CD are included with every new textbook for home use. There will be one computer-based project and one computer-based test covering all the lab materials. More detail will be announced during the lab.

Grading: 4 Quizzes 8%
Homework 5%
4 exams 52%
Computer project & Test 10%
Final Exam 25%

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: Unexcused absences of six meetings may result in excluding students from class.

Course Organization: The course will follow the attached course schedule as closely as possible.
See last pages.

Tutorial: If you have questions and/or cannot make it to office hours, or you just like to get more help, free tutoring is available at the Tutoring Lab located in CMS 121(STEM), and at the Math Center located in the LRC basement of the Campus Center. The hours of the Tutoring Lab are: M-Th 10am-8pm, F 10 am-4 pm, S 10 am-2 pm. The hours of the Math Center are TBD.

Class comportment:

All students are expected to arrive on time and attend all class meetings. 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. If you have any electronic devices, please turn off during class time. Those using devices will be kept with the instructor until the end of the class, and may be asked to leave. 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 of F 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

them. Do not just memorize how to do them, but understand the problem and how to solve it using the concepts learned in class. Get a study partner. Many times when a friend or study partner explains a problem or concept to you in a different way, it might make more sense. Also, you can keep each other accountable by making sure you do your homework in a timely manner. Finally, be well-prepared for exams. Do not try to “cram” before the test, but begin studying well before the test date. Get additional help if needed.

Cheating: Any students caught cheating will receive an automatic “F” for the semester.

Spring 2014- Math 227 Approximate Timetable (M, W)

	Monday	Wednesday
Week 1	Feb 10 Introduction, Ch1	12 Quiz#1 (Ch 1), Sect 2.1, 2.2
Week 2	17 No class	19 Ch 2.3, 3.1
Week 3	24 Ch 3.2- 3.4	26 Quiz #2 (Ch 2), Review Ch 2 & 3
Week 4	March 3 Exam #1 (Ch 2 & 3)	5 Lab I, CMS 121, 11:30am-12:30pm
Week 5	10 Ch 4.1, 4.2	12 Ch 4.3, 4.4
Week 6	17 Ch 4.4, 4.5	19 Exam #2 (Ch 4)
Week 7	24 Ch 5.1, 5.2	26 Ch 5.3, 6.1
Week 8	31 No class	April 2 Ch 6.2, 6.3
Week 9	7 Spring Break	9 Spring Break
Week 10	14 Quiz #3 (Ch 5), Ch 6.4	16 Review Ch 5 & 6
Week 11	21 Exam #3 (Ch 5 & 6)	23 Lab II, CMS 121, 11:30am-12:30pm
Week 12	28 Ch 7.1, 7.2	30 Ch 7.3, Lab III, 11:30am-12:30pm
Week 13	May 5 Quiz #4 (Ch7)	7 Ch 8.1
Week 14	12 Ch 8.2, 8.3	14 Ch 8.3, 8.4
Week 15	19 Review Ch 7 & 8	21 Exam #4 (Ch 7& 8)
Week 16	26 No class	28 Lab IV, Ch 10 Computerized Lab, 11:30am-12:30p
Week 17	June 2 Review for Final Exam	4 Final Exam

Important Dates: Last day to drop without a "W" – 02-23-14
Last day to drop with a "W" – 05-11-14
Final Exam: Wednesday, June 4, 10:00AM to 12:00 PM

Math 227 Handwritten Homework Assignments

Ch1 The Nature of Probability and Statistics

Review Ex. p. 26 1-9 all, 10(b, c, d, e), 11, 12, 17, 23, 25, 27, 29

Chapter Quiz p. 29 All except 20 and 21

Ch2 Frequency Distributions and Graphs

2-1 p. 46 3, 7, 8, 11

2-2 p. 61 4, 5, 15, 16

2-3 p. 84 3, 5, 6, 10, 14, 15, 16

2-4 P. 96 6, 7, 13

Ch3 Data Description

3-1 p. 126 3, 4, 12, 14, 30, 31, 32

3-2 p. 145 7, 9, 11, 13, 30, 31, 33, 34, 35, 37, 41, 42

3-3 p. 161 11, 13, 14, 22, 23, 24, 25, 27

3-4 p. 174 1, 3, 7, 9, 11, 13, 15

Ch4 Probability and Counting Rules

4-1 p. 203 1-10 all, 12 (a, c, e, g), 13, 14(a, b, c, d, e, h, i, j), 17, 21, 25

4-2 p. 212 2, 5, 9, 11, 13, 15, 17, 21

4-3 p. 228 1, 3, 5, 7, 8, 13, 15, 17, 19, 21, 29, 31, 35, 36, 37, 39, 41, 42, 45

4-4 p. 241 1, 3, 7, 9, 13(e, f, g), 15, 17, 19, 23, 27, 29, 31, 35, 40

4-5 p. 248 2, 3

Ch5 Discrete Probability Distributions

5-1	p. 266	7, 9, 11, 13, 15, 17, 19, 25, 27
5-2	p. 275	3, 7, 11, 12, 13, 15, 18
5-3	p. 285	1, 3(a, e), 5, 7, 11, 14(b, g, h), 15, 17, 21, 25

Ch6 The Normal Distribution

6-1	p. 309	7-49 odd
6-2	p. 323	1, 2, 9, 11, 15, 21, 22, 23, 26, 28, 30
6-3	p. 336	9, 13, 15, 17, 21, 23
6-4	p. 344	3 (a, b, c, d), 7, 8, 11

Ch7 Confidence Intervals and Sample Size

7-1	p. 364	11, 13, 15, 21, 23, 25
7-2	p. 372	4 (a, b, d), 5, 7, 10, 13, 15, 16, 17
7-3	p. 380	1(b, c, d), 2(a, b), 7, 8, 13, 15, 16, 17

Ch8 Hypothesis Testing

8-1	p. 410	12, 13
8-2	p. 420	5, 6, 7, 15, 19, 20, 21, 25
8-3	p. 432	4(a-f), 5, 6, 9, 11, 17 Use the P-value Approach
8-4	p. 440	13, 16, 17, 19

FOOD in the classroom: Absolutely no food is allowed in the classrooms.

NEW Spring 2014- Math 227 Approximate Timetable (M, W)

	Monday	Wednesday
Week 1	Feb 10 Introduction, Ch1	12
Week 2	17 No class	19 Sect 2.1, 2.2
Week 3	24 Ch 2.3, 3.1, Quiz#1 (Ch 1)	26 Ch 3.2- 3.4

Week 4	March 3 Quiz #2 (Ch 2), Review Ch 2 & 3	5 Lab I, CMS 121, 11:30am-12:30pm
Week 5	10 Exam #1 (Ch 2 & 3)	12 Ch 4.1, 4.2
Week 6	17 Ch 4.3, 4.4	19 Ch 4.4, 4.5
Week 7	24 Exam #2 (Ch 4)	26 Ch 5.1, 5.2
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Week 12	28 Exam #3 (Ch 5 & 6)	30 Ch 7.1, Lab III, 11:30am-12:30pm
Week 13	May 5 Ch 7.2, 7.3	7 Quiz #4 (Ch7)
Week 14	12 Ch 8.1	14 Ch 8.2, 8.3
Week 15	19 Ch 8.3, 8.4	21 Review Ch 7 & 8
Week 16	26 No class	28 Lab IV, Ch 10 Computerized Lab, 11:30am-12:30p
Week 17	June 2 Exam #4 (Ch 7& 8)	4 Final Exam