Syllabus Math 227 Statistics L.A. Mission College

MATH 227 Statistics Course Syllabus **Fall Semester 2008**

Ticket number	Room	Days	Time
3310	Bungle-4	Monday & Wednesday	(3:40 – 5:45) PM

Instructor: Hamid Jafari, PhD Office hours: MW (2:00-3:40)PM, Math Office Bungle
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Textbook: **Text: Elementary Statistics Fourth Edition**
By: Allan G. Bluman, ISBN: 0-07-334699-3 McGraw Hill Company.

Course Description: The purpose of this course is to present a first course in statistics appropriate for students in a wide variety of disciplines. A major objective of such a course is to acquaint the student with the basic ideas of descriptive and inferential statistics. This includes: Coverage of the nature of Statistics, sampling and design of experiments (Chapter1), Organizing & Describing Data & Measure of Central Tendency, Dispersion, and Graphs (Chapter 2), Data Description (Chapter 3), Probability (Chapter 4), Probability Distributions For Discrete Random Variables (Chapter 5), Probability Distributions For Continuous Random Variables; The Normal Distribution (Chapter 6), and Statistical Inferences Concerning Means, Variance, and Proportions intervals (Chapter 7),Hypothesis Testing(chapter 8), Regression and Correlation(chapter 10). Concepts are introduced and reinforced with examples and exercises from a wide range of fields, from sports to medicine.

Grading Policies:

Final Exam is to be cumulative over the entire book. The Final Exam will be held on Wednesday December, 17,2008 from (3:00-5:45) PM.

Each student's average for the semester will be based on a total of 100 %points. The usual grading scale (90%—100% is an A, 80%—89% is a B, 70-79 is a C, 60-69 is a D, and below 60 is a F) will apply.

Points	Component
5%	Homework
15%	Test 1
15%	Test 2
15%	Test 3
15%	Test 4
15%	Test 5
20%	Final Exam
100	**Total**

PREREQUISITES: Satisfactory completion of Math 125 with a grade of "C" or better.**Calculators, and Computer:** Use of calculator TI-83 plus in this course is essential. Computer software is Minitab, and Excel. No previous knowledge is required.**Homework Policy**: Homework is assigned every class day, and due the next class day. Homework will be checked every session beginning of class.

Academic Policies: If a student simply quits attending class without officially withdrawing, the student may receive a grade of "F" in the class. The last day for officially withdrawing from class without grade penalty is October 2 without a "W". Last day to Withdrawals by November 23 is subject to "W".

Student Learning: **Learning Objectives/Outcomes:**
After completing this course the student should have the knowledge of the principles, concepts and applications of descriptive and inferential statistics. Many of these principles and concepts are applicable to solving problems in business and economics, life science, and social science as well as other aspects of the student's Professional and personal life. Consequently, the student should expect the Benefits of studying Statistics to serve him/her in those areas.

Methodology: **The mode of delivery will be lectures, power points, homework assignments, and five tests, and Final examination. Class discussion of the subject matter concepts and interactive dialogue among students and the instructor is expected/encouraged to ensure clear understanding of statistical concepts and its applications to problem-solving, decision making in business and economics, life science, social science and other disciplines**

Attendance: Students are expected to attend each and every scheduled class session. Since lectures begin promptly at the scheduled time, students are encouraged to avoid arriving late to class. Participation is partially measured through attendance. Roll will be taken at the beginning of each class session.

Make-up tests: No make-up tests will be given in this class. If a student misses a test then he will receive a grade of zero on that test. **Cheating:** Cheating (or even the appearance of cheating) will not be tolerated in this class. Any student that the instructor suspects of cheating will be removed from the testing area. The issue will be referred to the appropriate Mission College committee for investigation.

Note: Attendance + Perseverance = Success

Every student who has made the commitment and has put in the appropriate effort has succeeded. I am here to make sure you succeed. I will get you through if you are willing to do your part.

Important Dates: Course Start 9/2/08, Ended 12/20/08, Deadline to add 9/12/08, last day to drop without a "W" 12/26/08, with "W" 11/21/08.

Learning Disabilities: L.A. Mission College, in compliance with state and federal laws and regulations, does not discriminate on the basis of disability. If you are a student with a documented disability, please call 818-364-7732, Director of Learning Assistance Programs, to make arrangements for classroom accommodations. His office is located in room 1018 Instructional Building. Additional disability related information and policies can be found in the Student Handbook.♦

Student Learning Outcome & Core Competencies

1 = Knowledge	2 = Comprehension	3 = Application	4 = Analysis	5 = Synthesis	6 = Evaluation

Student Learning Outcome	**Assessment Methods**	**Core Competencies**	**Expected Exit Level**
Students will be able to design and analyze studies that produce sound statistical results.	Homework, tests, quizzes, projects	2 a,b,c 3 a,c,d 4 a,b,c,d,e	6
Students will be able to compute basic statistics for a variable, including mean, variance, standard deviation, mode and 5 number summaries.	Homework, tests, quizzes, projects	2 a,b,c 3 a,c,d 4 a,b,c,d,e 7 a,b	3
Students will be able to describe the distribution of a quantitative variable in terms of its shape, center and spread, using graphical techniques.	Homework, tests, quizzes, projects	2 a,b,c 3 a,c,d 4 a,b,c,d,e 7 a,b	4
Students will be able to perform regression analysis to make informed predictions about the relationships between quantitative variables.	Homework, tests, quizzes, projects	2 a,b,c 3 a,c,d 4 a,b,c,d,e 7 a,b	5
Students will be able to apply confidence intervals and hypothesis testing to form conclusions about realistic data.	Homework, tests, quizzes, projects	2 a,b,c 3 a,c,d 4 a,b,c,d,e 7 a,b	6
Students will be able to employ and demonstrate an understanding of the rules of probability, including properties of the normal distribution.	Homework, tests, quizzes, projects	2 a,b,c 3 a,c,d 4 a,b,c,d,e 7 a,b	3