Los Angeles Community College District
Los Angeles Mission College

Syllabus Spring 2013

Course: **Math 227**: Elementary Statistics
Section: 0381
TTH: 12:20pm-2:25pm, Room CMS 027

Instructor: Hai Phu Ngo
Office hours: TTH: 11:45am-12:15pm
Office: Math Center
Email: ngohp@lamission.edu

Required Text: Elementary Statistics, 6th edition
Authors: Bluman

Important Dates: February 18,2013: Last day to drop without a " W".
May 03,2013: Last day to drop with " W ".
Final Exam: T 05/28/2013 at 12:30pm- 2:30 pm

Attendance: It is important that you attend class. Regular attendance will be expected. You are expected to attend class punctually and are responsible for assigned course work. If you had more than **three absences**, you will **be dropped** from your class on your **fourth** absence. **It is your responsibility to drop if you decide not to finish the course**. It is not your instructor's responsibility to drop you. If you do not drop and I do not exclude you, your name will be appeared on the grade roster at the end of the semester and there will be no choice but to assign a **F** grade. **So be sure to drop officially if you do not intend to finish the course**.

Zero Tolerance Cheating Policy – Mathematics: Cheating in this class is defined as knowingly or unknowingly participating in the submission of unoriginal work for any assignment, quiz, test. If it is determined that a student has cheated in this class, the instructor is required to fill out an Academic Dishonesty Report Form, and submit it to the Chair of Mathematics department who will forward the report to the VP of student services for disciplinary action which may include suspension or expulsion. In addition to sending the report, the instructor may take the following actions:

1) Assign a non-replaceable fail grade for the assignment, quiz, test even if doing so results in the impossibility of the student to pass the class.
2) Deduct an amount of points, as specified in the syllabus, from the student's overall total points for a Conduct Code Violation even if doing so results in the impossibility of the student to pass the class.
3) Dismiss the student for the remainder of the class session and/or the next class section.

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.

Read the textbook: The textbook provides a reasonable level of mathematical rigor and many exercises are quite reveling. I strongly encourage you to read 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 and regardless of whether they are mentioned in the lecture.

Homework: I will assign homework regularly. Students are responsible to complete the assigned homework as each section is completed. **It will be collected or grade. Homework due date will be on course schedule. Late Homework will not be accepted. Total scores for Homework is 50 points.**

Quizzes: There will be **5 (five)** quizzes. Each quiz is **15** points. If you are absent and miss the quiz you will not be allowed to make it up. However, the **lowest quiz's score will be dropped**. **Total quizzes score is 60 points**.

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. 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 covering all the lab materials. **Total scores is 40 points**.

Tests: There will be **5 (five)** tests during the semester. **No make up test for any reason**. However, **the lowest test's score will be dropped**. 100 points for each test**. Total Test scores is 400 points.**

Final: There will be a comprehensive final. **This final is mandatory to pass this class**. The **final test score is 200 points**.

Grading Scale: The following is the tentative grading scale base on the maximum score of **750** points: **A**: 675-750**, B:** 600-674, **C:** 520-599, **D:** 410-519, **F**: 0-409

<u>REMINDER</u>: There is a new LACCD enrollment limit. **The limit is now three times** to take a class and **includes both substandard grade and withdrawals**.

Course Schedule:

The following schedule should serve as a tool for preparing for each lecture, including dates for homework, quiz, and tests. The instructor reserves the right to change the following schedule with prior notice.

T 2/05: Introduction. Chapter 1
TH 2/07: Chapter 2: 2.1- 2.3
.**T 2/12**: Chapter 2: 2.4 . Chapter 3: 3.1. **Quiz # 1** (Ch 1)
TH 2/14: Chapter 3: 3.2- 3.4.
T 2/19: Review Chapter 1 & 2. **Quiz # 2 (Ch 2)**.
TH 2/21: Test # 1 (Ch 1 & 2) . **HW (Ch 2) due**.
T 2/26: Chapter 4: 4.1- 4.2.
TH 2/28: Chapter 4: 4.3- 4.4.
T 3/05: Chapter 4: 4.4 – 4.5
TH 3/07: Review Ch 3 & 4.
T 3/12: Test # 2 (Ch 3 & 4) . **HW (Ch 3 & 4) due**
TH 3/14: Lab # 1 (Ch 2, 3 ,4**)**
T 3/19**:** Chapter 5 : 5.1 – 5.2
TH 3/21: Chapter 5: 5.3. Chapter 6: 6.1
T 3/26: Chapter 6: 6.2 – 6.3.
TH 3/28: Chapter 6: 6.4**. Quiz # 3** (Ch 5) **.**
T 4/02 & TH 4/04 : SPRING BREAK . NO CLASS
T 4/09: Review Chapter 5 & 6.
TH 4/11: . **Test # 3 (** Ch 5 & 6 **). HW (Ch 5 & 6) due.**
T 4/16: Lab # 2 (Ch 5 & 6**)**
TH 4/18: Chapter 7: 7.1 – 7.2
T 4/23: Chapter 7: 7.3. Review Chapter 7.
TH 4/25: Chapter 8: 8.1 **Quiz # 4** (Ch 7)
T 4/30: Test # 4 (Ch 7**). HW (Ch 7) due**.
TH 5/02: Chapter 8: 8.2 -8.4.
T 5/07: Chapter 8: 8.4 . Review Chapter 8.
TH 5/09:. **Test # 5** (Ch. 8) . **HW (Ch 8) due**.
T 5/14: **Lab # 3 (** Ch 7 & 8)
TH 5/16: Chapter 10
T 5/21: Review Chapter 10**. Quiz # 5 (Ch 10)**
TH 5/23: Review for Final**. Computer Project due**.
T 5/28: Final Exam: 12:30pm – 2:30 pm

Homework Assignments :

Chapter 1: The Nature of Probability and Statistics
Review Exercise :(p. 26) : 1- 13 , 17, 23,25, 27,29
Chapter Quiz : All except 20 and 21.
Chapter 2: 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
2.4 (p.96) : # 6,7,13
Chapter 3: **Data Description**
3.1 : (p.126) : # 3,4,7,30,31,32
3.2: (p.145) : # 7,9,11,30,31,33,34
3.3: (p.161) : # 11,13,14,22,23,24,25
3.4 (p.174) : # 1,3,7,9,11,13,15
Chapter 4: Probability and Counting Rules
4.1 : (p.203) : # 12,13,14,17,21 25
4.2 (p. 212) : # 2,5,9,11,13,15
4.3 : (p. 228) : # 1,3,5,7,8,13,19,29,31,34,35
4.4: (p.2410): # 1,3,7,9,13(e,f,g) , 15,17,19,23,29
4.5: (p.248): # 3,5,6,7,13
Chapter 5: **Discrete Probability Distributions**
5.1: (p.266): # 7,11,15,17,25,27
5.2: (p.275): # 3,7,11,13,15,18
5.3: (p.285): # 1,3, 5,7,11,15,17
Chapter 6: **The Normal Distribution**
6.1 : (p. 309): # 11-47 odd only
6.2: (p.323): # 1,2,11,15,21,26
6.3: (p.336): # 9,13,15,17,21,23
6.4 : (p.344): # 3,7, 8,11
Chapter 7: Confidence Intervals and Sample Size
7.1: (p.p364): # 9,11,13,15,21,23,25
7.2: (p. 372): # 4(a,b,d) , 5,7,10,13,15
7.3 : (p.380): # 1(b,c,d) ,7,8,13,16
Chapter 8: **Hypothesis Testing**
8.1: (p. 410) : # 12,1 3
8.2 : (p.420): # 5,6,7,15,21,25
8.3: (p.423): # 5,6,9,11,17
8.4:(p. 440) : # 13,16,17,19 (Use the P-value Approach)