Instructor: Dr. Nikolas Antoniou

Contact Information:

- **Phone Number**: (818) 635-8313
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- **Office Hours**: M W: 12:15m – 01:00pm in the Math Lab (LRC building)

Textbook: Elementary Statistics – A brief Version, 4th Edition, by Allan G. Bluman

Class section: 0101
Time: MW 8:35am – 10:40am
Room: BUNG – 4
Computer Lab Sessions: LRC 205

Web Site: ***lamc-nda.pbwiki.com***

Important Dates:

- February 5 Class begins
- February 19 President's Day – No class
- February 20 Last Day to Drop and Obtain Refund
- March 4 Last Day to Drop without a "W"
- April 2-8 Spring Break – No class
- May 6 Last Day to drop with a "W"
- May 28 Memorial Day – No class
- May 30 FINAL exam

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

Course Objectives:
The course is an introduction to statistical concepts and techniques using a nontheoretical approach. Covered topics include descriptive and inferential statistics, construction of statistical tables, display data with statistical graphs, correlation and regression, probability, statistical distribution, central limit theory, hypothesis testing, and confidence intervals and sample size. The course includes an introduction to using computer software to present graphs, solve exercises, perform simulations, and to analyze and interpret data.

Student Learning Outcomes

1) Classify branches of statistics, identify sources of data, evaluate sampling methodolgies.
2) Construct pie charts, bar graphs and histograms, calculate central measures; calculate the five numbers summary, calculate standard deviation.
3) Calculate probabilities, define random variables, calculate the mean and standard deviation of binomial variables, calculate probabilties using the standard normal distribution tables.
4) Apply the Central limit Theorem to calculate means and proportions, calculate probabilities for the sampling distributions of the mean and proportion.
5) Use graphs to determine the shape of parent distributions and estimate the central measures of populations.
6) Calculate confidence intervals, calculate sample size for means and sample proportions.
7) Define and test hypotheses for the mean and proportion, apply the z- and t-tests in hypotheses testing, calculate p-values.
8) Compare two proportions or two means and draw appropriate conclusions, construct confidence intervals for two sample means and two sample proportions.
9) Calculate the correlation coefficient, determine the regression line.

Web Site:
http://lamc-nda.pbwiki.com This web site contains all course material, notes, announcements, solutions to quizzes/tests, and your progress reports. It is highly recommended that you visit this site often and particularly before you start studying.

Class Structure:
Most of the class time will be used for lecturing, reviewing homework assignments and examinations, answering questions, and working with computers in the Lab. Some time may also be used for students to work in groups. Students should expect to be called upon to solve problems on the board. Class environment will be informal, open, and relaxed; students are strongly encouraged to participate fully in class and to ask questions.

Cell Phones:
Use of cell phones is not allowed in the class. Students are expected to have their cell phones turned off while inside the classroom

Homework:
Students are responsible to complete the assigned homework as each section is completed. Homework will not be picked up or graded. Students are encouraged to do all the assigned homework. It will help develop the skills and knowledge necessary to master the course material and to do well in the exams.

Attendance:
Regular attendance is very important and highly encouraged. Missing class sessions makes it extremely difficult to do well in the exams and to complete the course successfully. You could be dropped after 3 absences. You are expected to be in class promptly. Arriving late or leaving early is very disruptive to your peers; **two** late arrivals or early departures will count as **one** absence! It is your responsibility as a student to drop the class if you decide to quit attending. Your failure to drop a class may result in a grade of "F".

Cheating:
Any student caught cheating will receive an automatic "F" for the class.

Tutoring:
Free tutoring is available in the Math Lab, located at the Learning Resource Center and in the Math Center located at the lower level of the Campus Center Building.

Testing:
1. There will be 5 classroom tests, 50 min each, on the days noted in the attached schedule. The lowest score of these five tests will be dropped and it will not count for your final grade.
2. There will be 2 computer-based quizzes.
3. There will be a comprehensive, 2-hour final examination, covering all course material taught.
4. All tests will be based on examples worked in class, assigned homework, and computer printout analysis.
5. There will be **no make-up** examinations for any of the semester tests, computer lab test, or the final test. Students are expected to take all exams. Missed examinations will receive a grade of zero.

Grading:

Percentage Distribution		**Assigned Grade**	
Tests (4 x 12%)	48%	90 - 100%	A
Computer Quizzes (2 x 8%)	16%	80 - 89%	B
In-Class Work	8%	70 - 79%	C
Final Exam	28%	60 - 69%	D
		Below 60%	F

No Incomplete grades will be given.

Course Organization:
The course will follow the tentative schedule below as closely as possible. Changes to the schedule will be communicated in the class and posted in the class web site. It is the responsibility of the students to inquire about a possible schedule change announcement whenever they are absent from a class session.

Initial Timetable (M W)

	Monday	**Wednesday**
Week 1 (02/05 - 02/07)	Lect 1.1 - 1.8	Lect 2.3 - 2.3
Week 2 (02/12 - 02/14)	Lect 2.4 - 3.2	Review Ch 1-2; Lect 3.3 - 3.4
Week 3 (02/19 - 02/21)	President's day (No Class)	***Test#1 Ch1-2***; Lect 3.5 - 3.6
Week 4 (02/26 - 02/28)	*Computer Lab: Ch 2-3*	Lect 4.1- 4.3
Week 5 (03/05 - 03/07)	Lect 4.4 – 4.7	Review Ch 3-4
Week 6 (03/12 - 03/14)	***Test #2 Ch 3-4***; Lect 5.1- 5.2	Lect 5.3 – 5.5
Week 7 (03/19 - 03/21)	Lect 6.1 – 6.3	Lect 6.4 – 6.5
Week 8 (03/26 - 03/28)	Review Ch 5-6	***Test #3 Ch 5-6***;
Week 9 (04/02 - 04/04)	Spring Break – No Class	Spring Break – No Class
Week 10 (04/09 - 04/11)	*Computer Lab: Ch 4-6*	*Lab Test #1 Ch 2-6*; Lect 7.1-7.2
Week 11 (04/16 - 04/18)	Lect 7.3 - 7.4	Lect 8.1 - 8.3
Week 12 (04/23 - 04/25)	Lect 8.4 - 8.5, 8.7	Review Ch 7-8
Week 13 (04/30 - 05/02)	***Test #4 Ch 7-8***; *Lab Ch 7-8*	Lect 9.1 – 9.4, 9.6
Week 14 (05/07 - 05/09)	Lect 10.1-10.3	Review 9-10
Week 15 (05/14 – 05/16)	***Test #5 Ch 9-10***;	*Computer Lab Ch 9-10 & Review*
Week 16 (05/21 – 05/23)	*Lab Test #2 Ch 7-10*; Review	Review
Week 17 (05/28 – 05/30)	Memorial Day – No class	FINAL