Course: Elementary Statistics  
Section Number 6513  
M 6:00 – 10:00 PM

Instructor: J C de Sulima-Przyborowski  
Office Hours: Monday, hours TBD  
Office: TBD  
Phone: TBD  
Email: sulima2003@yahoo.com

By Bluman (Paper Back)

Important Dates:  
March 3: Last day to drop without a “W”  
May 5: Last day to drop with a “W”  
Final Exam: Monday, June 2  
Holidays: 2/18, 3/24, 3/31, and 5/26

Course Outline  
Ideally we will cover the entire text. The first chapter gives an overview of the material. The second chapter covers graphical data presentation techniques including bar charts, stem and leaf plots, and histograms. Chapter three covers basic data description. In chapters 4, 5, and 6 topics in probability are discussed and used to introduce the concepts of the random variable and the binomial and normal probability distributions. Also, we have a thorough discussion both of the theory and application of the central limit theorem (CLT). In chapter 7 confidence interval estimation techniques for the population mean and proportion are discussed with attention paid to verification of necessary assumptions. Hypothesis testing for the population mean and proportion are discussed next, in chapter eight. Both large and small sample techniques are reviewed and the concept of P-value is introduced. In chapter 9 the concepts are then extended to the two-sample case for population means. Correlation and linear regression are discussed in chapter ten. We will also discuss the goodness of fit test and the analysis of variance in chapter eleven. Minitab is used throughout the course as the primary statistical analysis tool.

Course Structure  
Each class period runs 4 hours; hence, there will be a break during class. The class period will be broken into two lectures. Each lecture will begin with the students having the opportunity to ask reasonable questions about material recently discussed. The lectures will give an overview of the text material. At the instructor’s discretion material in addition to the text will be introduced during lecture. The instructor will go over examples during lecture and the students are expected to work exercises at their desks.

At each class meeting there is a possibility of a quiz. The material on these quizzes will, for the most part, be drawn from the material covered in class. Each quiz is worth 10 points. There are 10 planned quizzes. The instructor will give homework assignments to help you learn the material. You lose 2 points for either not submitting a homework or submitting a homework that is not satisfactory. The homework will be graded based on a single problem from the set.
There is a cumulative midterm worth 50 points and there is a cumulative final examination that is worth 50 points. The instructor will give you minitab assignments to help you learn how to use standard statistical software. You lose 3 points for either not submitting a minitab assignment or submitting a minitab assignment that is not satisfactory.

During the course you are expected to be able to communicate by email. Because this is a PACE class each student must take personal responsibility for their performance in the course. There are no make-ups for quizzes or exams. Late assignments will not be accepted. The lowest quiz score will be replaced with the average of the other nine quiz scores. If you miss the midterm it will be replaced with your final exam score: i.e., your final exam counts twice, in the case of missing your midterm. If you miss the final exam you fail the course. Regular attendance in the course is expected. You must verify your registration status throughout the semester. The administration makes the final determination with respect to enrollment status.

**Grading**
The grade will be based on a curve.

**Tentative Schedule** (The chapters of the text to be covered in lecture and the dates minitab project will be discussed) – expect at least one quiz each week. Homework assignments will be announced in class.

- 2/4: Preview and Introduction - Chapter 1, 2, 3 and minitab discussion.
- 2/11: Chapter 3
- 2/18: Presidents Day
- 2/25: Chapter 4
- 3/3: Chapters 4
- 3/10: Chapters 4 and 5
- 3/17: Review and midterm
- 3/24: Vacation (spring break)
- 3/31: Cesar Chavez Holiday
- 4/7: Chapter 6
- 4/14: Chapter 7, Chapters 8 and minitab
- 4/21: Chapter 8, 9 and minitab
- 4/28: Chapter 10 and minitab
- 5/5: Chapter 11 and minitab
- 5/12: Chapter 11
- 5/19: Critical Thinking, Applications and Review
- 5/26: Memorial Day
- 6/2: Final Exam

N.B.: Contact Mark Pursley, PACE Director if you are a student adding to the course.