

## PSYC 2317 – Statistics for Behavioral Sciences

Fall 2009

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### REQUIRED MATERIALS:

Packet of printed material  
Calculator with square root function  
4 Scantrons

### COURSE DESCRIPTION:

This course is designed to provide students with a basic understanding of the statistical concepts and methods used by social science researchers. The content of the course will include the organization of data, the description of data using measures of central tendency and variability, correlation and regression, experimental design, the normal curve of probability, and statistical inference.

### HOMEWORK:

Statistics is a subject that is learned by doing. Therefore, homework will be assigned on a weekly basis. The last section in your packet of materials contains the homework, some of which is “for Practice” and some of which is “for Credit.” The answers to the “practice homework are in the back of your packet and will not be turned in. All assigned “credit” homework will be turned in on exam days and the instructor will “spot check” certain problems and assign points for correct answers. Late homework will not be accepted.

It is to your benefit to work ALL assigned homework, including the problems that earn no credit. Doing so give you experience working with the material that you are learning and provides you with an opportunity to test your comprehension of the concepts involved.

### EXAMS:

Four exams will be administered during the course. Each exam will be in two parts. The first part will be “closed book” over concepts, definitions, and relationships. The second part will be “open-book” and “open-note,” and will be on the selection and application of concepts and procedures. Examination items will cover both lecture and chapter assignments. A study guide for each exam will be provided.

Students are required to take all 4 exams. If an **emergency** arises that prevents class attendance on exam day, the missed exam must be taken prior to the next class. No other make-up exams will be offered. It will be the student’s responsibility to make arrangements with the instructor if an exam is missed. Failure to take an exam will result in a “0” for that particular test.

## GRADES:

Grades will be based on a distribution of points accumulated for exams and homework assignments according to the following guidelines: 90-100% of points possible = A; 80-89% of points possible = B; 70-79% of points possible = C; 60-69% of points possible = D; 0-59% of points possible = F.

## ATTENDANCE and WITHDRAWAL:

This is a course in which concepts build upon one another. Your attendance and active participation are important components to completing this course successfully and is therefore expected.

If you decide to drop the course, it is your responsibility to complete a drop form and turn it in to the records office prior to the drop deadline of **Fri., Nov. 30<sup>th</sup>**. If you simply quit coming to class and do not complete the drop form, a grade of "F" will be received. At the instructor's discretion, you may be dropped for nonattendance after two unexcused absences.

## COURSE SCHEDULE

	Target Test Dates	
	Mon Class	Thurs Class
<u>UNIT I</u>		
Ch 1 – Introduction to Statistics		
Ch 2 – Organizing Data Using Tables and Graphs		
Ch 3 – Measures of Central Tendency		
Ch 4 – Measures of Variability	Sept. 28 <sup>th</sup>	Sept. 24 <sup>th</sup>
<u>UNIT II</u>		
Ch 5 – z-scores and Other Standard Scores		
Ch 6 – Probability and the Normal Distribution		
Ch 7 – Sampling Distribution of Means		
Ch 8 – Hypothesis Testing	Oct. 26 <sup>th</sup>	Oct. 22 <sup>nd</sup>
<u>UNIT III</u>		
Ch 9 – One Sample <i>t</i> -Test		
Ch 10 – Two Sample <i>t</i> -Test: Independent Samples Design		
Ch 11 – Two Sample <i>t</i> -Test: Related Samples Design		
Ch 12 – Confidence Intervals versus Point Estimation	Nov. 16 <sup>th</sup>	Nov. 12 <sup>th</sup>
<u>UNIT IV</u>		
Ch 13 – One-Way Analysis of Variance		
Ch 14 – Correlation and Regression		
Ch 15 – Chi-Square	Dec. 14 <sup>th</sup>	Dec. 17 <sup>th</sup>

**NOTE: Students with a documented disability (to include any physical, emotional, or learning disability) may arrange accommodations only through the Disability Services Office in the Counseling Center at Lee College. Your instructor will work with this office to ensure that your rights are met. The Counselor for Students with Disabilities is JoAnn Szabo and may be reached in the Counseling Center or by calling 281-425-6384 or by e-mail at [jszabo@lee.edu](mailto:jszabo@lee.edu)**