

Campbell University

**Camp Lejeune Campus
North Carolina**

**Course Syllabus
Biostatistics for Behavioral Sciences**

**Psy 267
Fall 2011**

October– December, 2011
Tuesday / Thursday 5:15pm – 7:40pm

Instructor: Ed Piper, PhD, Clinical Psychology

Office Location and Contact Information: 241 New River Drive.
577-4767(W); 455-6942(H); e-mail: epiper@ec.rr.com

Textbook: Essentials of Statistics for the Behavioral Sciences, 7th edition.
By Frederick J. Gravetter and Larry B. Wallnau.

Disabilities: Students with documented disabilities who desire modifications or accommodations should contact the Office of Student Support Services at 1-800-334-4111 or visit their local campus site academic coordinator.

Integrity Statement: All students are subject to the academic integrity and behavioral expectations of Campbell University.

Course Description: This course is relevant to Campbell University's purpose of preparing students to become social change agents in a dynamic society of cultural diversity. This course is an introductory overview of the theoretical concepts and fundamental principles of statistics for the behavioral sciences. This course examines the basic underlying components of statistics as it relates to the field of psychology. This course presents the

general topics of statistics in a well-organized, logically developed progression that leads from basic concepts and definitions to increasingly sophisticated techniques.

Course Content: The student will learn the role of statistics within the general field of scientific inquiry and the application of statistics to research methods in psychology and other social sciences. The student will learn the basic definitions, theories, and procedures of statistics. This course will introduce the student to the significant impact of statistics to the expansion of the scientific knowledge of human behavior and cognition.

Course Requirements: The student will be responsible for the material presented in class sessions along with the material within the textbook. Exams will include information from the textbook, assigned readings, and class lectures. Two exams will be given: a midterm and a final.

Evaluations / Grading: The student's grade will be determined by scores on two exams: midterm (50%) and final (50%). **Students who fail to complete the two exam requirements by the last day of class will receive a grade of "F".**

Grading Scale: 90-100(A); 80-89(B); 70-79(C); 60-69(D); below 60(F)

Attendance: Regular class attendance is required. It is the student's responsibility to complete any work missed due to absence or tardiness.

Course Objectives:

1. Introductory overview
2. Overview descriptive statistics
3. Overview frequency distributions
4. Overview measures of central tendency
5. Overview of variability
6. Overview inferential statistics
7. Overview of Z-scores
8. Overview probability
9. Overview of hypothesis testing
10. Overview of t-statistics/ t-test / chi-square
11. Overview of analysis of variance

Course Methodology / Materials:

Teaching format is lecture and class discussion; student participation.

Materials include the course textbook, assigned readings and the use of the erasable board.