

Dr. Okorley
TEB 144C
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EPE 570 - 002
ANALYZING & USING EDUCATIONAL DATA
Fall 1999, Wednesdays 4:00 - 6:30 pm

Required Text

Glass, G. V., & Hopkins, K. D. (1996). *Statistical methods in education and psychology* (3rd ed.), Needham heights, NJ:Allyn & Bacon.

COURSE OBJECTIVES

This introductory level course is designed to accomplish the following:

1. Gain a certain level of mastery of concepts and vocabulary of educational statistics.
2. Grasp the logic of statistical data analysis.
3. Understand very basic and underlying mathematics of statistics.
4. Acquire and extend basic skills in statistical computation using the computer.
5. Learn to interpret statistical results correctly.

The course will cover largely descriptive statistics and, to a lesser extent, inferential statistics. The computer statistical package known as MINITAB will be used for data analysis. Topics to be covered include:

1. Measurement scales
2. Exploring frequency distributions
3. Measures of central tendency and variability
4. The standard normal distribution
5. Correlation and Regression
6. Statistical Inference

TENTATIVE SCHEDULE

DATE	TOPIC	ASSIGNMENT
8/25	Introduction	Text ch. 1
9/1	Measurement scales	HW #1- MT pp. 12-13; Text ch 2-4
9/8-15	Measures of central tendency Frequency distributions	HW #2- MT p.63-64; P&E p.64 (1-3,6,7) HW #3 ; Text ch. 5
9/22-29	Measures of variability	HW #4- MT p.77-78;P&E p. 78 (1-5); HW #5 ; Text ch. 6
10/6-13	The normal distribution	HW #6 - MT p. 98-99; HW #7 ; Text ch. 7& 9
10/20	MIDTERM EXAM	
10/27-11/17	Correlation & Regression	HW #8 – MT p. 144-147; HW #9 – MT p.189-190 (1-20); HW #10 ; Text ch. 11
11/24-12/1	Hypothesis Testing	HW #11 - P&E p. 252-253 (3,4,5); HW #12
12/8	Take-home exam due	

Note:

1. MT - Mastery Test
2. P&E - Problems and Exercises
3. **Bolded** assignments must be turned in for grading.

Course Expectations

- * Students are encouraged to complete **all** homework assignments.
- * All assignments are to be completed for the **next** class session.

* There will be two in-class exams: Midterm and Final.

GRADING POLICY

Points are distributed as follows.

5 Graded Homework Assignments	25
Midterm Examination	25
Final Examination	50
Total	100

<u>Grade</u>	<u>Total Points</u>
A	90 - 100
B	80 - 89
C	70 - 79
E	0 - 69

The final course grade is determined such that students have **3 chances** of receiving an **A** grade. First, a score of 90% or above on the final exam results in a final course grade of **A** regardless of other scores. Secondly, a combined final and midterm score of 90% or above yields **A**. Third, a combined exams and homework score of 90 and above yields an **A** course grade. The same process works for a **B** or **C** grade.