EASTERN ILLINOIS UNIVERSITY
DEPARTMENT OF KINESIOLOGY AND SPORT STUDIES

KSS 5001
ANALYSIS AND INTERPRETATION OF STATISTICAL DATA

INSTRUCTOR: Dr. Phyllis Croisant

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OFFICE HOURS
MW 2-3 PM
Tues. 3-4 PM
F 11:30 AM-12:30 PM
For other hours, call or email for an appointment

TEXTBOOK: *Basic Statistics for the Health Sciences, 5th Ed.*
- J. Kuzma & S. Bohnenblust (McGraw-Hill, 2005)

GOALS:
1. To be able to read and understand the statistical content in reports of surveys, studies, investigations, and experiments.
2. To be able to plan your own studies and analyze data resulting from them.
3. To be able to use statistical software for data analysis.

EVALUATION:

Homework assignments	55%
Exam 1	20%
Exam 2	25%

GRADING: Letter grades will be based on the following system:

A 90-100%	C 70-79%
B 80-89%	D 60-69%

ACCOMMODATIONS FOR STUDENTS WITH DISABILITIES:
If you have a documented disability and wish to receive academic accommodations, please contact me as soon as possible or contact the Coordinator of the Office of Disability Services (581-6583).

STUDENT SUCCESS CENTER
Students who are having difficulty achieving their academic goals are encouraged to contact the Student Success Center (www.eiu.edu/~success) for assistance with time management, test taking, note taking, avoiding procrastination, setting goals, and other skills to support academic achievement. The Student Success Center provides individualized consultations. To make an appointment, call 217-581-6696, or go to 9th Street Hall, Room 1302.

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Spring 2010

TENTATIVE SCHEDULE

Jan.	12	Introduction	Chap. 1
		Basic definitions; scales of measurement	Chap. 2, 3
	19	Organization of data: tables, graphs	Chap. 3
		Use of computers for graphing	
	26	Use of computers for data analysis	
		Descriptive statistics - central tendency	Chap. 4
Feb.	2	Descriptive statistics - variability	Chap. 4
		Correlation coefficients	Chap. 13
	9	Correlation/regression	Chap. 13
		Indicators of relative achievement	
	16	Probability rules and definitions	Chap. 5
	23	**EXAM 1**	
Mar.	2	Binomial probability distribution	Chap. 5 & 11
		Normal probability distribution	Chap. 6
	9	Sampling	Chap. 7
		Estimation	Chap. 8
	23	Testing hypotheses	Chap. 9
		Independent t-test	Chap. 9
	30	Dependent t-test	
		Type I & II errors; power	Chap. 8
Apr.	6	ANOVA	Chap. 10
		Post-hoc tests	
	13	Factorial designs; MANOVA	
		Chi-square	Chap. 12
	20	Chi-square (cont.)	
		Other non-parametric tests	Chap. 14
	27	Other non-parametric tests (cont.)	
		Review for exam 2	
May	4	**EXAM 2** **5:15-7:15 pm**	