GOVERNORS STATE UNIVERSITY
College of Business and Public Administration

Course Number & Title: STAT 362 STATISTICS FOR MANAGEMENT II

Session: Fall 2000 - M/W 11:00 a.m.-12:15 p.m.

Instructor: Dr. Z. A. Malik

Phone No.:   708/534-4953

Office Hours: Monday and Wednesday: 12:30-1:30 p.m.
                                                    3:30-5:00 p.m.

   And by Appointment

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Catalog Description:

A continuation of STAT 361. Topics covered include analysis of variance, regression analysis, correlation, interval estimation, hypotheses testing, nonparametric statistics, bivariate distributions, and chi-square tests. Students can make use of a statistical computer package in the analysis of data and application of statistical tests.

Perquisites: STAT 361

Textbook: Anderson, et al., <u>Statistics for Business and Economics</u>, 7th ed., West Publishing Co., 1998.

   Study Guide, optional

Expected Student Outcomes:

After completion of the course, the student is able to:

1.   Test hypotheses, using one or two sample designs.

2.   Compute the Analysis of Variance for problems involving three or more sample spaces.

3.   Compute a Chi-Square Analysis and Goodness of Fit test for an appropriate data set.

4.   Describe and calculate Correlation and Regression Analysis of a data set.

5.   Apply Nonparametric Tests to appropriate data sets.

Description:

The topics for the second course in Statistics for Management include Confidence Interval, Hypothesis Testing, Analysis of Variance, Regression, Correlation, Nonparametric Statistics, Bivariate Distributions and Chi-Square Tests.

Basis for Course Grade:

Class Participation (including attendance, homework, etc.)	20%
Exams	80%

The following percentages/letter grade relationship will hold for the total score:

Over 89%	A
80-89%	B
70-79%	C
60-69%	D
Below 60%	F

Note:

1. No "incompletes" will be given unless the student has remained ill for a substantial period during the trimester, and in good standing.

2. No "make-up exams" except in proven medical emergencies.

3. Unexcused absences and tardiness will adversely affect your grade. Habitual violation will earn you a failing grade.

4. Incomplete, messy or late homework will not count towards your grade.

Syllabus Statement for Persons with Disabilities:

It is the intention of this institution to support full participation of all students, regardless of physical ability level. Therefore, if any student needs consideration of his/her physical abilities in order to complete the course, please notify the instructor as soon as possible.

SCHEDULE

Week	Topic	Text Assignment
1	Introduction to Course	
2	Interval Estimation (Confidence Intervals)	Chapter 8 Chapter 8
3	Confidence Intervals Hypothesis Testing	Chapter 8 Chapter 9
4	Hypothesis Testing	Chapter 9
5	Hypothesis Testing Inference About Two Populations	Chapter 9 Chapter 10
6	Inference About Two Populations Analysis of Variance	Chapter 10 Chapter 13
7	Analysis of Variance	Chapter 13
8	Analysis of Variance	Chapter 13
9	Simple Linear Regression Analysis	Chapter 14
10	Simple Linear Regression Analysis Correlation Analysis	Chapter 14 Chapter 14
11	Multiple Regression Analysis	Chapter 15
12	Multiple Regression Analysis	Chapter 15 Chapter 12
13-15	Independence and Goodness of Fit Non-Parametric Review	Chapter 12 Chapter 19

A.   Exam dates will be announced as the course progresses.

B.   Schedule is subject to change if necessary.

dak
8/00