

GOVERNORS STATE UNIVERSITY
College of Business and Public Administration



Course Number & Title: STAT 362 STATISTICS FOR MANAGEMENT II
Session: July/Aug. 1996, Spring/Summer Trimester
Instructor: Dr. Z. A. Malik
Phone No.: 708/534-4953 Secy: Dorothy Kennedy 534-4938
Office Hours: M/W 12:00-2:30 p.m.
Credit Hours: 3

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.

Prerequisites: STAT 361

Textbook: Anderson, et al., Statistics for Business and Economics, 5th ed., West Publishing Co., 1990.

Study Guide

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.

6. Use a statistical package to compute ANOVA, Correlation, and do Regression Analysis.

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 (4 @ 20% each)	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.
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.

SCHEDULE

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

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6/96