

Governors State University
College of Business and Public Administration

Course Number & Title: STAT 362 Statistics for Management II

Session: Fall 1998
11:00-12:15 Monday/Wednesday

Instructor: Professor Edna Fry
MBA, CPA

Phone No.: 708/534-4949

Office Hours: M/W: 9:00-9:30 a.m.
W: 6:30-7:30 p.m.
T/Th: 11:00-11:30 p.m.

e-mail: e-fry@govst.edu
efry@ameritech.net

Office: C3397

Credit Hours: 3

Catalog Description:

A continuation of STAT 361. Topics covered include analysis of variance, regression, correlation, time series, indexing, nonparametric statistics, bivariate distributions, and chi-square tests. Students make extensive use of a statistical computer package in the analysis of data and application of statistical tests as they apply in business situations.

Prerequisites: STAT 361

Textbook:

Anderson, Sweeney and Williams, Statistics for Business and Economics, West Publishing Co., 1996, Sixth Edition.

Anderson, Sweeney and Williams, Student Workbook.



Expected Student Outcomes:

Upon completion of this course, the student will be able to:

1. Create and interpret Confidence Intervals.
2. Test hypothesis using one and two sample designs.
3. Compare three or more sample means with analysis of variance.
4. Use a chi-square analysis to compare several sample proportions and perform a goodness-of-fit test.
5. Apply the appropriate nonparametric test to make decisions about non-normally distributed data.
6. Describe and calculate correlation and regression analysis of bivariate data sets.
7. Measure change over time with index numbers.
8. Become familiar with and utilize Excel in the GSU computer system.

Description: Topic for the second courses in Statistics include a review of the topics in Statistics I, hypothesis testing using one and two sample designs, analysis of variance, chi-square and other common nonparametric tests, regression, and correlation. Students are expected to have successfully completed Statistics I prior to enrolling in this course.

Evaluation:

| | |
|-----------------------------|------------|
| 7 Quizzes (Best 5 out of 7) | 100 points |
| Midterm | 100 points |
| Final | 100 points |
| Excel | 25 points |

No make-ups unless approved prior to the test.

| | |
|---------|---|
| 90 > | A |
| 80 - 89 | B |
| 70 - 79 | C |
| 60 - 69 | D |
| Below | F |

Homework: To learn the material, it is essential that you attempt the assigned homework on a timely basis.

Disclaimer: This syllabus is subject to change as the course progresses.

General Education Issues:

Writing and critical thinking skills are incorporated into this class through extensive case analysis discussions and writing assignments.

Syllabus Statement for Persons with Disabilities:

It is the intention of the 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.

TENTATIVE SCHEDULE

| Week | Topic | Chapter |
|------|--|--------------|
| 1 | Interval Estimation Problems 5,7,9,13,15,21,24,31,32,38,42,50 | 8 |
| 2 | Quiz 1 (Chapter 8) Hypothesis Testing Problems 7,13,17,20,26,27,31,39,40,50 | 9 |
| 3 | Hypothesis Testing Quiz 2 (Chapter 9) Hypothesis Testing Statistical Inference About Means and Proportions With Two Populations Problems 2,5,9,15,17,19,25,27,35 | 9 10 |
| 4 | Hypothesis Testing Statistical Inference About Means and Proportions With Two Populations Quiz 3 (Chapter 10) | 10 |
| 5 | Inference About Population Variances Problems 3,5,8,11,12,12,15,19 | 11 |
| 6 | Quiz 4 (Chapter 11) Test of Goodness of Fit & Independence Problems 3,5,8,11,12,15,19 | 12 |
| 7 | Test of Goodness of Fit & Independence Quiz 5 (Chapter 12) | 12 |
| 8 | Midterm | 8,9,10,11,12 |

TENTATIVE SCHEDULE

| | | |
|-----------|---|-----------------|
| 9 | Analysis of Variance Problems 7,8,15,21,27,28,31,33,34,35,36,39 | 13 |
| 10 | Analysis of Variance | 13 |
| 11 | Quiz 6 (Chapter 13) Regression Analysis Problems 4,5,9,26,27,62,63,65,68 | 14 |
| 12 | Regression Analysis | 14,15 |
| 13 | Quiz 7 (Chapter 14) Nonparametrics Problems 36,37,50,29,31,47,16,44,23,24,8,67 | 19 |
| 14 | Nonparametrics | 19 |
| 15 | Final | 13,14,19 |