GOVERNORS STATE UNIVERSITY
College of Business and Public Administration

Syllabus

Course Title: Statistics for Management II (Teleclass)
Course Number: STAT 362S
Session: Winter 1998 Trimester, Block 1 January - April 1998
Instructor: Dr. Z.A. Malik
Phone Number: (708) 534-4953 E-mail: z-malik@govst.edu
Credit Hours: 3

Catalog Description

This course attempts to provide students with a basic understanding of statistics and its many applications to decision situations in business. The course is designed as a continuation of the topics covered in STAT 361. The major thrust of the course is inferential statistics. Topics covered include Confidence Intervals, Hypothesis Testing, Analysis of Variance, Regression and Correlation and Design of Experiments.

Prerequisite: STAT 361 Statistics for Management I

Teaching Materials


Anderson, David R., et al., Workbook to accompany Statistics for Business and Economics (prepared by Mohammad Ahmadi), West Publishing Co., 1996 (optional)

Teleclass Study Guide (required)

Statistics for Management II Student Packet, Governors State University Print Shop (required)

Expected Student Outcomes:

Upon completion of this course the student is able to:

1. Establish confidence intervals for population means.
2. Test hypotheses to validate claims about population means.
3. Use the analysis of variance procedure to determine if means of more than two populations are equal.
4. Conduct regression and correlation analysis and establish how good a fit is provided by the estimated regression equation.

Notes:

• STAT 361 is a prerequisite for the course. Chapters 1-7 of your textbook are usually taught in that course. You are encouraged to thoroughly review those chapters.

• Answers to even-numbered exercises are in Appendix E and Solutions to self-test exercises are in Appendix F.

• Grade of “incomplete” will not be given except for prolonged illness of a student in good standing.

• No make-up exams will be given except in case of illness on the day of the exam.

Evaluation:

There will be a mid-term and a final examination scheduled at Governors State University.

<table>
<thead>
<tr>
<th>Mid-Term Examination</th>
<th>40 points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Final Examination</td>
<td>40 points</td>
</tr>
<tr>
<td>Homework</td>
<td>20 points</td>
</tr>
</tbody>
</table>

Basis for Grade:
- Above 89%: A
- 80-89%: B
- 70-79%: C
- 60-69%: D
- Below 60%: F

Schedule:

Orientation Dates:  
- Friday, January 16, 1998 6:30 p.m.
- Saturday January 17, 1998 12 noon

Discussion Dates:
- Saturday, February 28, 1998 1 p.m.
- Saturday, April 11, 1998 1 p.m.

Examinations:
- Saturday, March 3, 1998 1 p.m.
- Saturday April 18, 1998

COURSE DESCRIPTION

1. Interval Estimation  Chapter 8
2. Hypothesis Testing  Chapter 9
3. Statistical Inference about Means and Proportions  Chapter 10
4. Analysis of Variance and Experimental Design  Chapter 13
5. Simple Linear Regression  Chapter 14
6. Multiple Regression  Chapter 15
Statistics for Management II (Teleclass)

HOMEWORK ASSIGNMENTS

Homework assignments for each chapter are given below:

Chapter 8        Exercises #3, 14, 15, 22, 31, 56 and 63
Chapter 9        Exercises #7, 16, 27, 35, 42, 73; omit 27(d)
Chapter 10       Exercises 1, 2, 5, 13, 15, 21, 26
Chapter 13       Exercises #3, 6 and 21
Chapter 14       Exercises #5, 7 and 19
Chapter 15       Exercises #1, 11 and 20

Note: Due date for homework assignments of Chapters 8-10 (3 chapters) March 3, 1998. Chapters 13-15 (3 chapters) assignments should be submitted on April 18, 1998. Late submission of assignments will affect grades.