

GOVERNORS STATE UNIVERSITY
College of Business and Public Administration

Course Title: STAT 361 Statistics for Management 1

Instructor: Professor Edna Fry

Session: Sept/Dec 1990, Fall Trimester, Block I

Phone: (312) 534-5000, ext.2257

Textbook: Anderson, Sweeney and Williams, Statistics for Business and Economics, West Publishing Co., 1990.

Description:

This course is designed to help students use statistical techniques as they are used in business today, both in manufacturing and non-manufacturing settings. Topics include descriptive statistics, probability and probability distributions, sampling, confidence intervals and simple hypothesis testing for means and proportions, and the use of the techniques in the statistical package MINITAB appropriate to these topics.

Competency Statement:

Upon completion of this course, the student is able to:

1. Designate the difference between discrete and continuous data.
2. Compute the mean, median, mode, percentiles, variance and standard deviation for samples of data.
3. Read, interpret, and create graphical representations of data, including run charts, pie charts, frequency polygons, normal probability plots, and histograms.
4. Compute simple and conditional probabilities, expected values, applying them to decision trees.
5. Apply the binomial, Poisson, and normal distributions to practical problems.
6. Describe and evaluate sampling designs and techniques.
7. Compute confidence intervals for means and proportions.
8. Test hypotheses using single sample designs.
9. Interpret a correlation coefficient and simple regression.

GSU ARCHIVES
Stat 361
F90

Evaluation:

Test I	Week 7	Chapter 1-4	100 points
Test II	Week 15	Chapters 4-8	100 points
Quiz (10)	---NO MAKE-UPS---		100 points
Homework			30 points
Minitab			20 points
			<hr/>
			350 points

90%	- A
80%	- B
70%	- C
60%	- D
Below 60%	- F

083090vs

	<u>Topic</u>	<u>Chapter</u>
<u>Class 1</u> Sept 4	Data, Measurement & Statistics	1.1-1.7
<u>Class 2</u> Sept 11	Descriptive Statistic I Tabular & Graphical Approaches Quiz 1	2.1-2.3
<u>Class 3</u> Sept 18	Descriptive Statistics II Measures of Location & Dispersion Quiz 2	3.1-3.3
<u>Class 4</u> Sept 25	Descriptive Statistic II Measures of Location & Dispersion Introduction to Probability Quiz 3	3.4-3.5 4.1-4.3
<u>Class 5</u> Oct 2	Introduction to Probability Quiz 4	4.4-4.5
<u>Class 6</u> Oct 10	Introduction to Probability Quiz 5	4.6 Bayes' Theorem
<u>Class 7</u> Oct 16	TEST I	1-4
<u>Class 8</u> Oct 23	Discrete Probability Distributions	5.1-5.4
<u>Class 9</u> Oct 30	Continuous Probability Distributions Quiz 6	6.1-6.3
<u>Class 10</u> Nov 6	Sampling & Sampling Distributions	7.1-7.5
<u>Class 11</u> Nov 13	Sampling & Sampling Distributions Quiz 8	7.6-7.8
<u>Class 12</u> Nov 20	Interval Estimation Quiz 9	8.1

STAT 361--4

Class 13

Nov 27 Interval Estimation
Quiz 10

8.2-8.4

Class 14

Dec 4 Review

5-8

Class 15

Dec 11 FINAL EXAM

083090vs