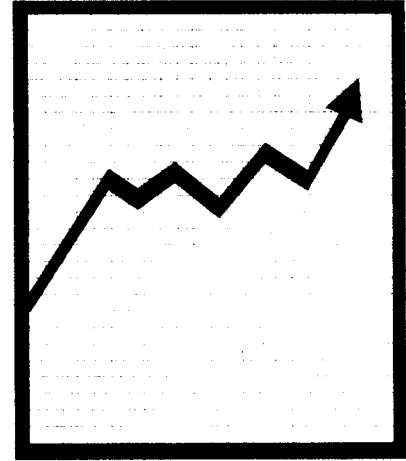
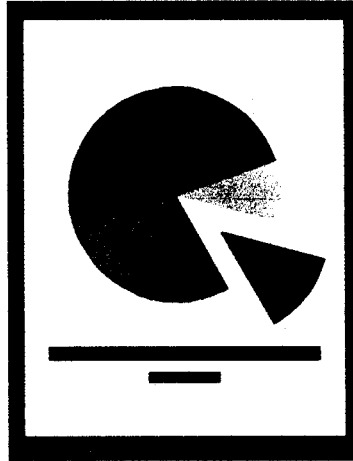
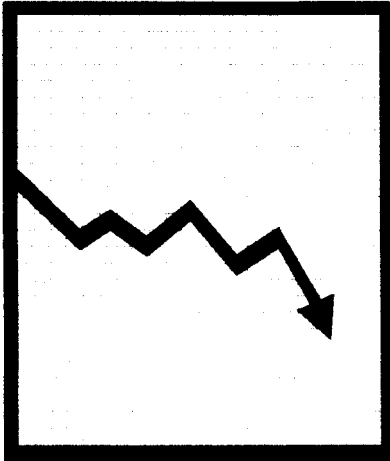


STATISTICS



STAT 7

William F. Benage, MBA, MS

Instructor

REEDLEY COLLEGE

Spring 2000

ELEMENTARY STATISTICS

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COURSE OUTLINE

TEXT: BASIC STATISTICS by Lind and Mason, 1996.

INTRODUCTION AND OVERVIEW

Theme How can we ask meaningful questions about behavior of individuals, groups, and institutions, and obtain answers to these questions? We often, but by no means always, use statistics as an aid to the process of asking and answering such questions.

Definition Statistics is a body of knowledge designed to aid a person to make wise decisions in the face of uncertainty.

OUTLINE

SUMMARIZING DATA

<u>January 10</u>	<u>Chapter 1</u>	<u>Introduction</u>	<u>Complete Selected Exercises</u>
<u>January 12</u>	<u>Chapter 2</u>	<u>Data Frequency Distributions</u>	<u>Complete Selected Exercises</u>
<u>January 19</u>	<u>Chapter 2</u>	<u>Graphic Presentation</u>	<u>Complete Selected Exercises</u>
<u>January 24</u>	<u>Quiz 1 (100 points)</u>		

MEASURES OF CENTRAL TENDENCY AND DISPERSION

<u>January 26</u>	<u>Chapter 3</u>	<u>Describing Data</u>	<u>Complete Selected Exercises</u>
<u>January 31</u>	<u>Chapter 3</u>	<u>Measures of Central Tendency</u>	<u>Complete Selected Exercises</u>
<u>February 2</u>	<u>Chapter 3</u>	<u>Dispersion</u>	<u>Complete Selected Exercises</u>
<u>February 7</u>	<u>Quiz 2 (100 points)</u>		

PROBABILITY CONCEPTS

February 9 Chapter 4 Approaches to Probability Complete Selected Exercises

February 14 Chapter 4 Addition & Multiplication Rules Complete Selected Exercises

DISCRETE PROBABILITY DISTRIBUTIONS

February 16 Chapter 5 Mean, Variance,
and Standard Deviation Complete Selected Exercises

February 23 Chapter 5 Binomial Probability Distribution Complete Selected Exercises

February 28 Quiz 3 (100 points)

THE NORMAL PROBABILITY DISTRIBUTION

March 1 Chapter 6 Characteristics, etc. Complete Selected Exercises

SAMPLING DISTRIBUTIONS AND METHODS, CONFIDENCE LIMITS, AND THE CENTRAL LIMIT THEOREM

March 6 Chapter 7 Sampling Complete Selected Exercises

March 8 Chapter 7 The Central Limit Theorem Complete Selected Exercises

March 13 Chapter 7 Confidence Interval Complete Selected Exercises

March 15 Quiz 4 (100 points)

HYPOTHESIS TESTING -- Z Test for Means and Proportions (Parametric)

March 20 Chapter 8 Five-Step Procedure
Semester Project Handout Complete Selected Exercises

March 22 Chapter 8 Testing Complete Selected Exercises

March 27 Quiz 5 (100 points)

HYPOTHESIS TESTING -- t Test for Small Samples (Parametric)

March 29 Chapter 9 t Distributions Complete Selected Exercises

April 3 Chapter 9 Comparing Two Population Means Complete Selected Exercises

April 5 Quiz 6 (100 points)

CORRELATION

April 10 Chapter 11 Simple Correlation Analysis Complete Selected Exercises

April 12 Chapter 11 Regression Analysis Complete Selected Exercises

HYPOTHESIS TESTING -- Nonparametric Methods (Chi-Square)

April 24 Chapter 13 Goodness-of-Fit Test Complete Selected Exercises

April 26 Quiz 7 (100 points)

STATISTICAL QUALITY CONTROL

May 1 Chapter 14 Quality Control Charts Complete Selected Exercises

May 3 Chapter 14 Acceptance Sampling Complete Selected Exercises

May 8 Quiz 8 (100 points) Extra Credit Project due

May 10 Review Semester's Work Semester Project due (150points)

May 15 FINAL QUIZ 6-8 PM (150 points)

REQUIRED MATERIALS: Textbook and Calculator
(Recommend TI Scientific Calculator)

EVALUATION FACTORS:

Quiz 1-8 scores (lowest score dropped)	700 points
Semester Project	150 points
Final Quiz	<u>150 points</u>
Total	1000 points

GRADE FACTORS:

90 - 100% A
80 - 89% B
70 - 79% C
60 - 69% D
< 60%

Attendance

A student's presence is considered to be important to the quality of their learning and to insure their opportunity to contribute to that learning. Students should consider classes to be their job and grades to be their merit pay. Employees who do not show up for work do not get paid. **Work schedules, other courses, job interviews, personal problems, and student activities** are **NOT** acceptable excuses for missing class. Those are activities/commitments you must learn to manage on your off-duty time.

The instructor reserves the right to drop a student from this course if he/she misses more than one week (two absences) of work during the first nine weeks (Note: Two "tardies" will equate to one absence). After the drop date, the student's final grade will be reduced by 10 percent. Students participating in sports events must coordinate their traveling schedule with the instructor. Every effort will be made to arrange an early quiz day.

No Make-Up Quizzes

All quizzes must be completed on time. In other words, **no make-up quizzes**. If you miss a quiz, that quiz becomes your quiz to be dropped. Any individual may make arrangements to take a quiz prior to the scheduled day of the quiz. Students participating in sports events must coordinate their traveling schedule with the instructor. Every effort will be made to arrange an early quiz day.

Extra Credit

One extra credit project is available for those who wish to complete it. It is worth 100 points and is due May 8, 2000.

Other

Gentlemen are expected to remove their headgear when entering the classroom (Lecture and Laboratory).

Cheating and plagiarism will not be tolerated. A student will receive no credit for a quiz if in the opinion of the instructor the individual has cheated.

Please turn-off your cell phone and/or pager.

Refer to the college catalog for additional guidelines.

The **last day to drop** this course is **Friday, March 10, 2000**.

The **final examination** is scheduled for **Tuesday, May 16, 2000**.

ADDENDUM

ACADEMIC DROPS

A student will be dropped if he/she scores less than 60 percent on two consecutive quizzes within the first nine weeks.

A student will be dropped if he/she scores less than 70 percent on three consecutive quizzes within the first nine weeks.

A student will be dropped if he/she does not meet the minimum attendance standards during the first nine weeks.

After nine weeks, the student's final grade will be reduced by 10 percent if he/she does not meet the minimum attendance standards.

A student may drop this course without the instructor's permission during the first nine weeks.

You can not drop this course after the official drop date.