

CISQ 2013 BUSINESS STATISTICS

Catalog Description:

Introduction to probability and statistics. Topics include collecting, presenting and describing data; probability; probability distribution including normal, sampling student-t and F-distributions; decision making through hypothesis testing; and simple linear regression.

Prerequisite:

MATH 2053 Finite Mathematics

CISQ 1103, Introduction to Computer Information Systems, is recommended

Credit Hours/Contract hours/Load hours:

3/3/3

Target Audience & Transfer:

Designed for students working towards an AAS degree in Business or who are planning to transfer and apply this course to a number of business degrees. Upon successful completions (C or better) this course will transfer to the University of Arkansas for credit toward the Bachelor of Science degree in Business Administration.

General Course Objectives:

Students completing this course will be able to:

Knowledge

Work with raw data: arrange, convey meaning, analyze tendencies.

Know certain probability rules.

Work with samples and sampling distribution

Critical Thinking

Analyze tendencies of data sets.

Apply the rule of probability in different settings.

Apply hypotheses testing in making decisions.

Academic Skills

Calculate statistics of samples.

Use basic understanding of order to make decisions.

Cultural Awareness

Have an understanding how statistics effects people and processes.

Required Text(s):

Business Statistics for Bus. And Economics, Lind, Mason, & Marchel, 3rd Ed
Irwin McGraw Hill

Topics:

- I. Frequency Distributions
- II. Measures of Location
- III. Survey of Probability
- IV. Normal Probability
- V. Sampling
- VI. Analysis of Variance
- VII. Linear Regression and Correlation

Required Methods of Instruction:

NorthWest Arkansas Community College
Business and Computer Information Course Outline

Lecture, Problem Solving, Sampling, Describing Data, Probability, Discrete Probability Distribution, Normal and Standard Normal Probability Distribution, Sampling Probability Distribution, Tests of Hypothesis, Analysis of Variance, and Linear Regression.

Required Forms of Assessment:

Exams, homework problems assignments from text, some projects.

Daily work (made up of Homework Checks, Quizzes and Projects), and Five Chapter Exams.