

Introduction To Statistics

Instructor: Wanda Henderson

Contact Information:

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Text: Understandable Statistics by Brase/Brase, 1999

Room: 303

Prerequisites: Basic Algebra

Course Objectives: To provide the student with the necessary knowledge needed to go into such fields as economics, business, education, medicine, etc.

Methods of Instruction: Warm-up problems, review of previous homework, problem solving sessions, calculator activities, in-class activities, computer activities, exit cards, and projects.

Classroom Procedures:

- Take out books and homework
- School bags under your seat
- Work on warm-up problems
- Bathroom passes will be issued when needed
- Sign out sheet on left side of door
- Listen to announcements
- Sit quietly until teacher dismisses you

Methods of Evaluation:

Tests	30%
Quizzes	20%
Assignments	15%
Activities	15%
Projects	<u>20%</u>
	100 %

Extra help is available before and after school.

Improper Behavior:

First Offense-15min. after school with teacher-parent notified

Second Offense-30 min. after school with teacher-parent notified

Third Offense-referral to Principal for Sat. detention-parent notified

1st Quarter

- I. Organizing Data**
 - 1. Graphs
 - 2. Histograms
 - 3. Stem and Leaf Displays

- II. Averages and Variation**
 - 1. Measures of Central Tendency
 - 2. Measures of Variation
 - 3. Percentiles

2nd Quarter

- III. Probability theory**
 - 1. Probability rules-Compound Events
 - 2. Trees and Counting Techniques

- IV. Binomial Probability Distribution**
 - 1. Random Variables & Probability Distribution
 - 2. Binomial Probabilities
 - 3. Binomial Distributions
 - 4. Poisson Distributions

3rd Quarter

- V. Normal Distributions**
 - 1. Graphs of Normal Distribution
 - 2. Areas under Normal Distribution
 - 3. Approximation to the Binomial Distribution

- VI. Sampling Distributions**
 - 1. Central Limit Theorem

4th Quarter

- VII. Linear Regression & Correlation**
 - 1. Paired Data & Scatter Diagrams

2. Linear Regression
3. Linear Correlation Coefficient
4. Multiple Regression