

AP Statistics Outline

Text: The Practice of Statistics

- Chp 1 Exploring Data
 - Displaying Distributions on Graphs
 - Describing Distributions with Numbers

- Chp 2 The Normal Distribution
 - Density Curves and Normal Distributions
 - Standard Normal Calculations

- Chp 3 Examining Relationships
 - Scatterplots
 - Correlation
 - Least-Squares Regression

- Chp 4 More on Two Variable Relationships
 - Transforming Relationships
 - Cautions about Correlations and Regression
 - Relations in Categorical Data

- Chp 5 Producing Data
 - Designing Samples
 - Designing Experiments
 - Simulating Experiments

- Chp 6 Probability: The Study of Randomness
 - The Idea of Probability
 - Probability Models
 - General Probability Rules

- Chp 7 Random Variables
 - Discrete and Continuous Random Variables
 - Means and Variance of Random Variables

- Chp 8 The Binomial and Geometric Distributions
 - Binomial Distributions
 - Geometric Distributions

- Chp 9 Sampling Distributions
- Sampling Distributions
 - Sample Proportions
 - Sample Means
- Chp 10 Introduction to Inference
- Estimating with Confidence
 - Tests of Significance
 - Making Sense of Statistical Significance
 - Inference as Decision
- Chp 11 Inference for Distributions
- Inference for the Mean of a Population
 - Comparing Two Means
- Chp 12 Inference for Populations
- Inference for a Population Proportion
 - Comparing Two Proportions
- Chp 13 Inference for Tables: Chi-Square Distributions
- Test for Goodness of Fit
 - Inference for Two-Way Tables
- Chp 14 Inference about Regression
- Inference about the Model
 - Predictions and Conditions
- (optional – Post Exam Topics)
- Chp 15 Analysis of Variance
- Inference for Population Spread
 - One-way Analysis of Variance

Evaluation

During each of the three terms, evaluations will be based upon:

Assignments/Homework/Class Participation	10%
Test/Quizzes	90%

Final standing: The final mark will consist of the average of all three terms.