**Course Name**: Probability and Statistics (Honors and Regular) Mrs. Hanczyc

**RESOURCE BOOK**: *The Basic Practice of Statistics 2nd Edition* ; Author: David S. Moore; Copyright: 1995, 2000 Publisher: WH Freeman and Company; ISBN # : 0-7167-3627-6

**Objectives:** Probability and Statistics is intended for college-bound students who anticipate needing this background for their individual course study. Students with an interest in business, engineering, or the social sciences (physiology, sociology, etc), should strongly consider taking this elective course. Probability and both descriptive and inferential statistics will be covered at length.

**Material Covered:**

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| **Chapter 1:**  1.1 Displaying Distributions with Graphs  1.2 Describing Distributions with Numbers  1.3 The Normal Distributions  **Chapter 2:**  2.1 Scatterplots  2.2 Correlation  2.3 Least-Squares Regression  2.4 Cautions about Correlations and Regression  2.5 Relations in Categorical Data  **Chapter 3:**  3.1 Designing Samples  3.2 Designing Experiments  **Chapter 4:**  4.1 Randomness  4.2 Probability Models  4.3 Sampling Distributions  **Chapter 5:**  5.1 General Probability Rules  5.2 The Binomial Distributions  Probability Packet  5.3 Conditional Probability | **Chapter 6:**  6.1 Estimating with Confidence  6.2 Tests of Significance  6.3 Making Sense of Statistical Significance  6.4 Error Probabilities and Power  **Chapter 7:**  7.1 Inference for the Mean of a Population  7.2 Comparing Two Means  **Chapter 8:**  8.1 Inference for a Population Proportion  8.2 Comparing Two Proportions  **Chapter 9:**  9.1 Two-Way Tables  9.2 The Chi-Square Test |