

Southern Regional High School

Manahawkin, New Jersey

Course Syllabus

Department: Math

Course: Statistics Advanced Placement

Marking Period 1

Topics/Units to be covered:

- Classroom Expectations/Grading
- Analyzing Data - graphically, numerically
- Density Curves & the Normal Distribution
- Examining Relationships - graphically, regression analysis, 2 way tables
- Designing Surveys
- Quarterly

Marking Period 2

Topics/Units to be covered:

- Designing Experiments
- Simulations - design, running, analysis
- Probability Models
- General Probability Rules
- Discrete and Continuous Random Variables w/ rules of means & variances
- Binomial & Geometric Distributions
- Quarterly

Marking Period 3

Topics/Units to be covered:

- Sampling Distributions - CLT, sample proportions, sample means
- Confidence Intervals for population means and proportions
- Significance Tests with sigma known & Type I, Type II Error
- Significance Tests with population means (t distribution) and proportions
- Comparing Two Population Parameters - 2 Sample/Prop tests and intervals
- Chi-square Goodness of Fit and Two-Way Table Tests
- Linear Regression T-Tests and T-Intervals
- Quarterly

Marking Period 4

Topics/Units to be covered:

- Practice AP Tests – 2002, 2007, AP produced
- Practice Free Response Packets – 2009, 2010 A&B
- Chapter Reviews 1- 15
- Grading with AP Rubrics
- ANOVA – test after AP Exam
- Comprehensive Taste Test Project
- Final Exam