TITLE: AP STATISTICS
COURSE NUMBER:
GRADE LEVEL: 10-12
LENGTH OF COURSE: 36 WEEKS

MAJOR CONCEPTS:

AP Statistics introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. This course is equivalent to a one-semester, introductory, non-calculus based college course in statistics. Through exploration and discovery, students will gain the confidence and proficiency to communicate statistical concepts. Through labs and activities students will discover and improve their statistical skills with the proper use of technology. Through student driven projects, students will develop their statistical knowledge. Through readings and exposure to real life examples and studies, students will employ statistical analysis.

EVALUATION TECHNIQUES:

Assessments:

- *Tests* are given at the completion of each chapter. *Quizzes* are assigned frequently.
- *Midterm* is given at the completion of the 2nd quarter. This is a mock AP ® exam and will be worth 15% of the overall quarter grade.
- *Mini-Projects* are given periodically throughout the year and will count as an assessment.
- *Final Project* – A final project will be assigned in the fourth quarter. It will be due after completion of the AP ® exam. This will be worth 15% of the quarter grade.
- *AP® Exam* will be taken Thursday, May 16th at 12:00 pm.

Participation: 5 points will be given weekly for participation.

Students lose these points if they:
- Speak out of turn or are disrupting the learning experience
- Are tardy or have an unexcused absence
- Sleep in class or are not actively learning
- Fail to show up to afterschool/before school/Saturday scheduled meetings.

Class Work: Class work is to be completed in class. This includes class notes, 'do now' and any activity or lab that is to be done in class. Class work is collected when appropriate and will count towards your grade.

Homework: Homework and book notes will be assigned every day. All assignments will be due at the beginning of the following class period**.** Doing homework and taking book notes daily will ensure that you will not fall behind in this course. The homework and notes packet will be collected on Test Days. Late work will be accepted **only** in the case of an excused absence. All homework assignments are posted in the classroom.

GRADE SCALE:

1st & 3rd Quarter:

Participation	10%

*Students will have a summative final project that will be due after taking the AP® exam. This will count as their Final Exam.

2nd & 4th Quarter:

Participation	5%
Test/Quiz/Mini-Project	65 %
Homework/Class-work	15 %
Midterm/Final Project *	15 %

Course Objectives: Students are exposed to four broad conceptual themes, with appropriate emphasis given to each:

I. Exploring Data: Describing patterns and departures from patterns
II. Sampling and Experimentation: Planning and conducting a study
III. Anticipating Patterns: Exploring random phenomena using probability and simulation
IV. Statistical Inference: Estimating population parameters and testing hypotheses

- AP Statistics draws connections between all aspects of the statistical process, including design, analysis, and conclusions.
- AP Statistics teaches students how to communicate methods, results, and interpretations using the vocabulary of statistics. Class discussion is encouraged to develop students' ability to communicate statistically.
- AP Statistics teaches students how to use graphing calculators and demonstrates the use of computers and/or computer output to enhance the development of statistical understanding through exploring and analyzing data, assessing models, and performing simulations.
- Students who successfully complete the course and exam may receive credit, advanced placement, or both for a one-semester introductory college statistics course