



Grand Haven High School

AP Statistics

Course Number: E60 A and B

Grade Level: 9th, 10th, 11th, 12th

Credits : 1.0

Prerequisite Courses : Successful completion of Honors Algebra II A & B

Course Description

The Advanced Placement Statistics course is an excellent option for any student who has successfully completed a second year course in algebra, and is planning on attending college, regardless of intended college major. In college, at least one statistics course is typically required for majors such as engineering, psychology, sociology, health science, and business. The purpose of this course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes:

- Exploring Data: Observing patterns and departures from patterns
- Planning a Study: Deciding what and how to measure
- Anticipating Patterns: Producing models using probability and simulation
- Statistical Inference: Confirming models

This course meets all the requirements of the Advanced Placement Program and will prepare students to qualify for the advanced placement statistics examination, as administered by The College Board. Students who successfully complete the course and examination may receive credit and/or advanced placement for a one-semester introductory college statistics course.

Course Objectives

This course meets all the requirements of the Advanced Placement Program and will prepare students to qualify for the advanced placement statistics examination, as administered by The College Board. Students who successfully complete the course and examination may receive credit and/or advanced placement for a one-semester introductory college statistics course. A TI-83/84 graphing calculator is highly recommended.

Building Behavioral Expectations

T.E.A.M. GH ... One Team, One Family, One Grand Haven. Be Kind. Always.

It is our expectation that ALL GHHS students, staff and parents will ... always give their best **EFFORT** in everything that they do, work hard to be **INCLUSIVE** of each other, show **RESPONSIBILITY** in class, the hallways, cafeteria and at events, and **WORK TOGETHER** at all times!

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Student Expectations

* Students are expected to be active participants in their education, including completion of all assigned work, and best effort on quizzes and tests. * Students are expected to obtain a graphing calculator for this course, see teacher for suggested model. A notebook specific to math is also encouraged.

Communication

Students are expected to regularly monitor their progress through the Parent Internet Viewer and teacher blog sites. Parents and students are encouraged to contact teachers through email or phone with any questions or concerns.

Grading Policy

Assessment for grades will occur in the following categories:

Tests 60%

Quizzes 25%

Assignments 15%

The school's standard grading scale will be used to determine letter grades.

Scope and Sequence

First Semester

Chapter 1: Exploring Data
Chapter 2: Modeling Distributions of Data
Chapter 3: Examining Relationships
Chapter 4: Designing Studies
Chapter 5: Probability: What are the Chances?
Chapter 6: Random Variables
Chapter 7: Sampling Distributions

Second Semester:

Chapter 8: Estimating with Confidence
Chapter 9: Testing a Claim
Chapter 10: Comparing Two Population Parameters
Chapter 11: Inference for Distributions of Categorical Data: Chi-Square
Chapter 12: More About Regression
AP Test Review

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