



AP Statistics Grand Haven High School



Course Number: E60

Grade Level: Freshmen, Sophomores, Juniors, Seniors

Credits : 1credit

Prerequisite Courses : Successful completion of Honors Algebra II (Precalculus Preferred)

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

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.

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.

Building Behavioral Expectations

TEAM 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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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.

* The Math Lab is available before and after school, and during all lunches for additional help

Grading Policy

Assessment for grades will occur in the following categories:

- Tests 50%
- Quizzes 35%
- 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: Describing Location in a Distribution
- Chapter 3: Examining Relationships
- Chapter 4: More about Relationships between Two Variables
- Chapter 5: Producing Data
- Chapter 6: Probability and Simulation: The Study of Randomness
- Chapter 7: Random Variables
- Chapter 8: The Binomial and Geometric Distributions

Second Semester:

- Chapter 9: Sampling Distributions
- Chapter 10: Estimating with Confidence
- Chapter 11: Testing a Claim
- Chapter 12: Significance Test in Practice
- Chapter 13: Comparing Two Population Parameters
- Chapter 14: Inference for Distributions of Categorical Variables: Chi-Square

Procedure

- Chapter 15: Inference for Regression
- AP Test Review

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