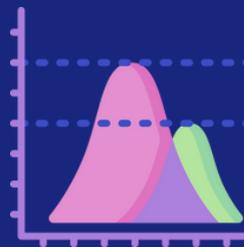




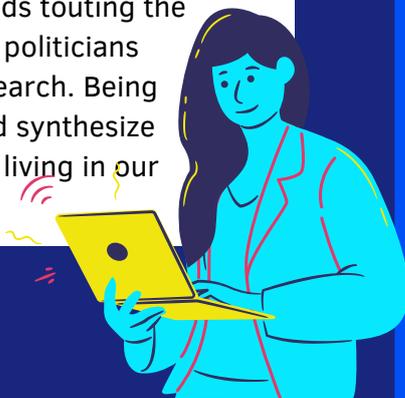
AP STATISTICS

NORTHWOOD HS



SO, WHY AP STATISTICS?

We live in the age of information, where we are constantly bombarded with raw numbers, graphs, or prediction lines. Commercial TV is filled with ads touting the newest drug. Businesses and politicians make decisions based on research. Being able to analyze, interpret, and synthesize data is an essential aspect of living in our modern, data-driven world.



WHAT IS AP STATISTICS?

This is an introductory course on statistics. You'll learn how to collect, organize, analyze, and interpret data.

WHY SHOULD I TAKE IT?

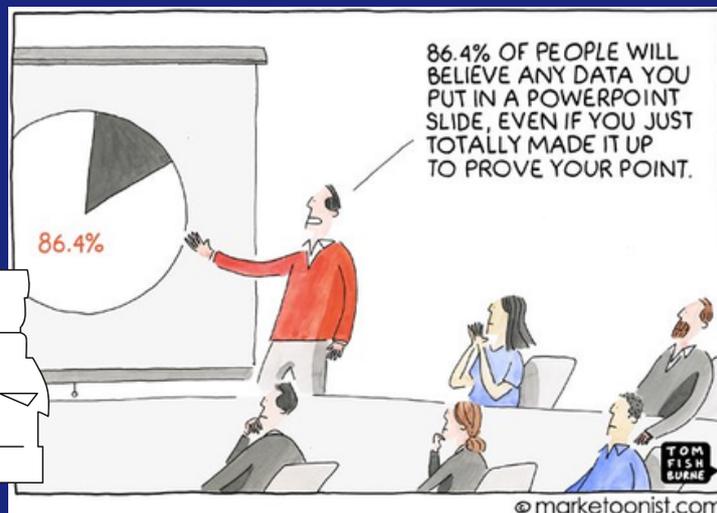
Statistics is more applicable and used more by people than any other kind of math. You will always be able to answer the question, "When are we ever going to need this?" Additionally, it is a full-year course that in college, is taught in one semester. So that means you will have plenty of time to ask questions and completely understand the concepts. It also counts as math credit at universities!

WHO USES STATISTICS?

Everyone uses statistics, college-bound or not. Some majors that utilize statistics are: business, finance, computer science, engineering, political science, chemistry, and many others. Those going to college will probably take some class, some time, that uses statistics. Why not be prepared?

IS AP STATISTICS HARD?

AP Statistics is a college course, so expectations are high. Without practicing at home and doing homework, the course is difficult. AP Statistics is not like a regular math class. We don't memorize formulas, but we do use graphing calculators every day. We don't have problem after problem of calculations, but rather, written analysis or interpretation of our calculations. Reading comprehension is a must. Be prepared to write... a lot!



What the Course Covers

The Four Major Components of AP Stat

Experimental Design

Students design appropriate experiments in order to draw conclusions that can be generalized to the population of interest. Students will also interpret studies and experiments to determine whether the conclusions from the studies warrant consideration.

Exploring Data

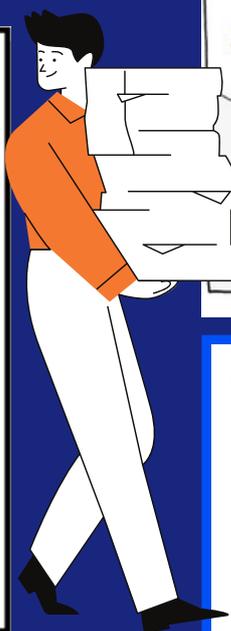
Students collect and examine data and display the patterns that emerge. Data from students in class as well as real world data sets are gathered and used to illustrate concepts.

Producing Models Using Probability and Simulation

Students learn to anticipate patterns and produce models for prediction. Students use simulations to model situations that are not practical to replicate using other methods.

Statistical Inference

Students learn what can be generalized about the population. Students also consider how to investigate research questions, design a study, and interpret the results.



QUESTIONS WE ANSWER IN AP STATS:

- What is random?
- How tall am I relative to my classmates?
- How are pregnancy and statistics related?
- How often does a Hershey's kiss land on its base?
- Can students really taste the rainbow?
- Is yawning contagious?
- Which color M&M is the most common?

Need more info?

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