

WELCOME TO AP STATISTICS

*Back to School
Information*

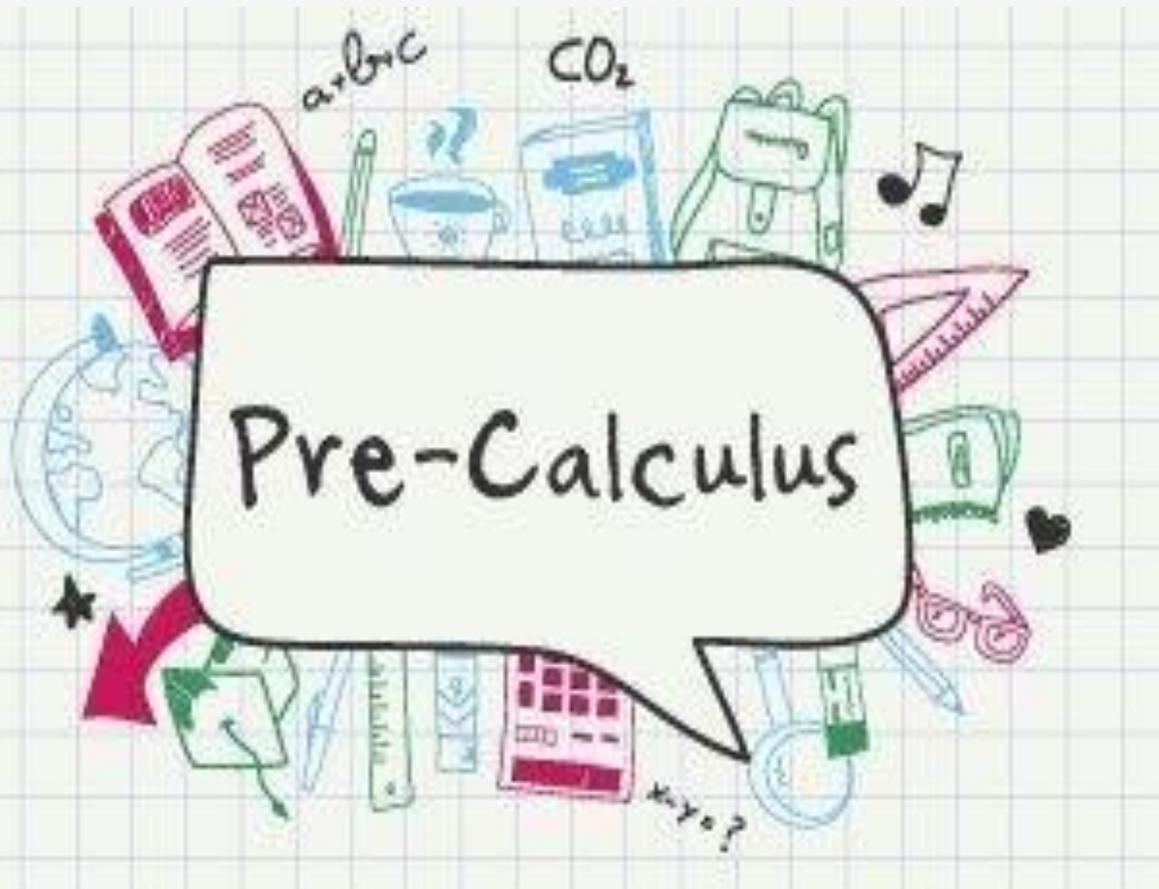


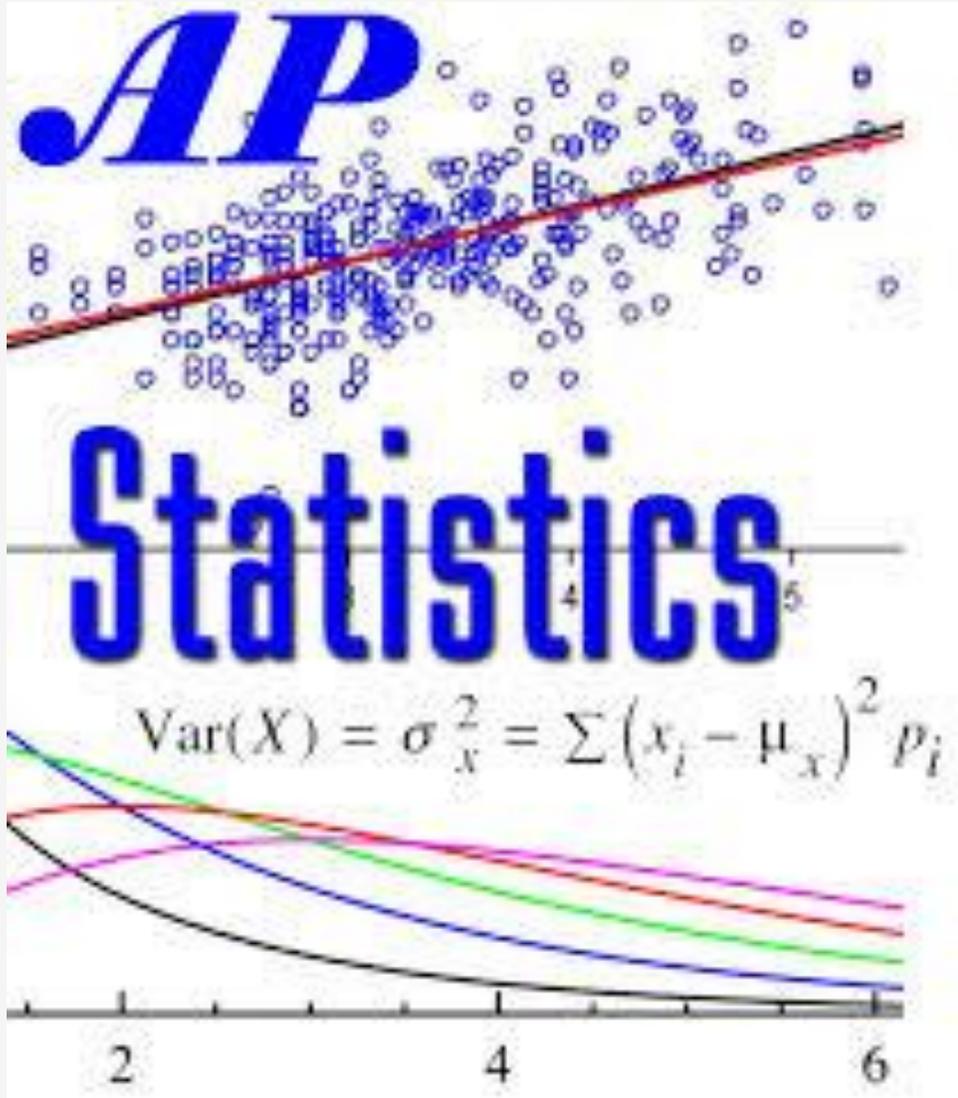
Prerequisite to AP Statistics

Algebra 2 Honors or Algebra 2



Can be Taken Concurrently with





AP Statistics is a college-level introductory course. It is a course in reading, analyzing, critical thinking, and clarifying mathematical concepts. Students will learn how to collect, organize, research, and interpret data.



Actuary

Operations Research Analyst

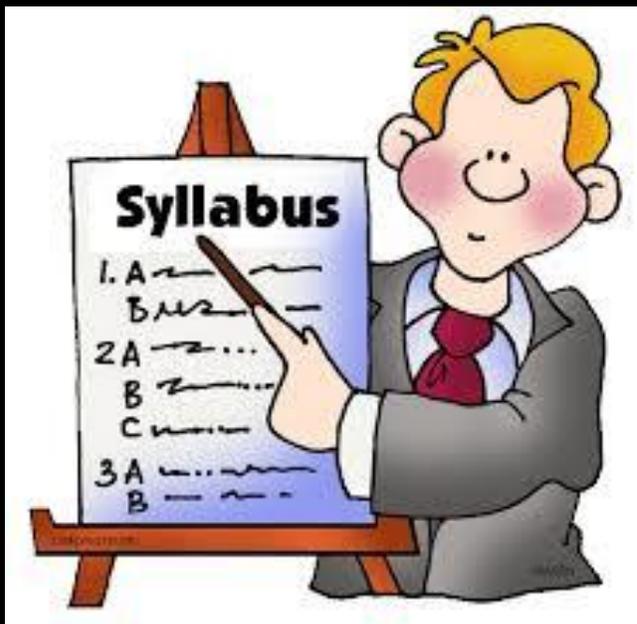
Data Analysts/Data Scientist

Quantitative Analyst

Computer Systems Analyst

AP Statistics is also a foundational course for students who want to go into any data science and statistics field.

AP Statistics Course Outline



- I. Exploring One-Variable Data
- II. Exploring Two-Variable Data
- III. Collecting Data
- IV. Probability, Random Variables,
and Probability Distributions.
- V. Sampling Distributions
- VI. Inference for Categorical Data:
Proportions
- VII. Inference for Quantitative Data:
Means
- VIII. Inference for Categorical Data:
Chi-Square
- IX. Inference for Quantitative Data:
Slopes

Skills You Will Learn



- **Selecting methods for collecting or analyzing data**
- **Describing patterns, trends, associations, and relationships in data**
- **Using probability and simulation to describe probability distributions and define uncertainty in statistical inference**
- **Using statistical reasoning to draw appropriate conclusions and justify claims**

WHY TAKE AP?



Why take AP Statistics



AP[®] Statistics

- Statistics is the most widely applicable branch of mathematics.
- Statistics is essential in every branch of science, including social sciences (like psychology, sociology, anthropology), business and economics, political science and government, law, and medicine.
- You can earn college credit for this course.

Why take AP Statistics



AP[®] Statistics

- If you are good at explaining scenarios, and love to play with data; you will do well in a Statistics class.
- Develop skills like hypothesis testing and statistical literacy that will not only help you with science classes you take in college but also for the rest of your life.
- Make your high school transcript look impressive by taking an advanced placement math class and, at the same time, saving money for a semester-long college statistics class.

Statistician

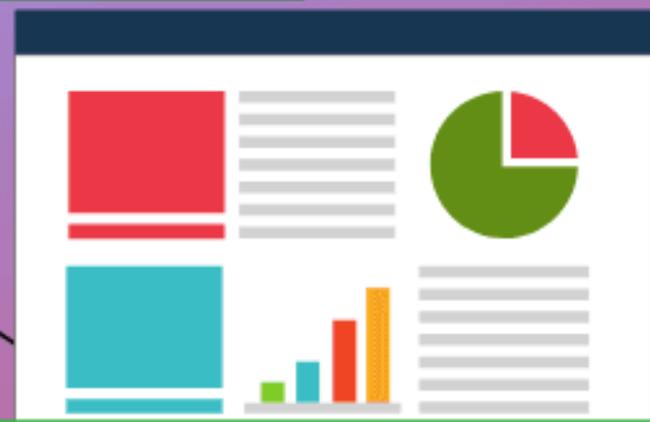
Financial Analyst

Quantitative Analyst

Actuary

Most Common Jobs

Specialized/Unique Jobs



Statistics Major

Personal Financial Advisor

Operations Research Analyst

Environmental Scientist

Market Research Analyst



Non-Traditional Jobs

Other Potential Jobs

Real Estate Appraiser

Accountant

Survey Researcher

Insurance Underwriter

DATA SCIENTIST

《《《《 MUST-HAVE SKILLS 《《《《

MATH & STATISTICS

- Machine Learning
- Statistical Modeling
- Exploratory Analysis
- Clustering
- Regression Analysis

DOMAIN KNOWLEDGE & SOFT SKILLS

- Inclination towards business operations
- Keen on working with data
- Problem solver
- Strategic, proactive, and cooperative
- Interested in hacking



PROGRAMMING & DATABASE

- Computer Science Fundamentals
- Database Management System
- Data Visualization
- Python
- Big Data

COMMUNICATION & VISUALIZATION

- Storytelling skills
- Convert data-based insights into decisions
- Collaborative with Sr. Management
- Knowledge of tools like Tableau
- Visual art design

This is entirely dependent on a student's work ethic, persistence and the ability to perform statistical reasoning.

Skills you will need :

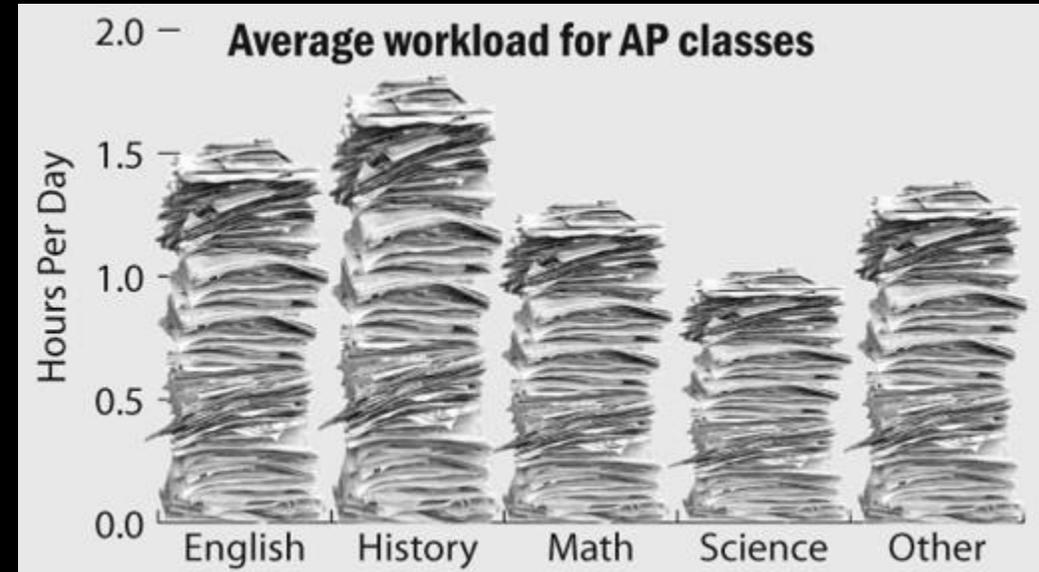
Arithmetic: : A general “number sense” is a great help and will help lower overall AP® Stats difficulty.

Graphical Literacy: The ability to look at a graph and gain a good sense of what information you can extract from it.

Statistical Reasoning: The ability to use appropriate statistical language when describing your findings.

Trial and Error: The ability to keep on trying new solutions until you find one that works.

Is the Class Hard



If you study for quizzes and tests, keep up with your homework, actively participate, ask questions, seek help, and stay focus in class. The grade will take care of itself.

**Is the Class
Hard**



AP® Statistics Exam



The AP Statistics Exam will test your understanding of the mathematical concepts covered in the course units, including your ability to use statistical methods and calculate the probability of an outcome. You can use a graphing calculator with statistics capabilities for the exam. The duration of the exam is 3 hours.

AP® Statistics Exam Score

AP Score	Credit Recommendation	College Grade Equivalent
5	Extremely well qualified	A
4	Well qualified	A-, B+, B
3	Qualified	B-, C+, C
2	Possibly qualified	n/a
1	No recommendation	n/a

What Does Your Score on the AP® Statistics Exam Mean?

Most colleges don't offer college credit for a score below a three. Some colleges only offer credit for fours and fives. But regardless of the score that you get, try to keep things in perspective.

4
Getting a three – the average score on the AP® Statistics exam (or the *median* score, for you statistics experts!) – is equivalent to getting a low B or a high C in a college course.

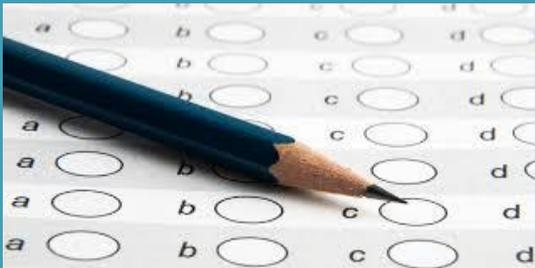
AP® Statistics Exam Components

Section 1: Multiple Choice

40 questions | 1hr 30mins | 50% of Score

Section 2: Free Response

6 questions | 1hr 30mins | 50% of Score



FRAPPYs

How are AP Exams scored?

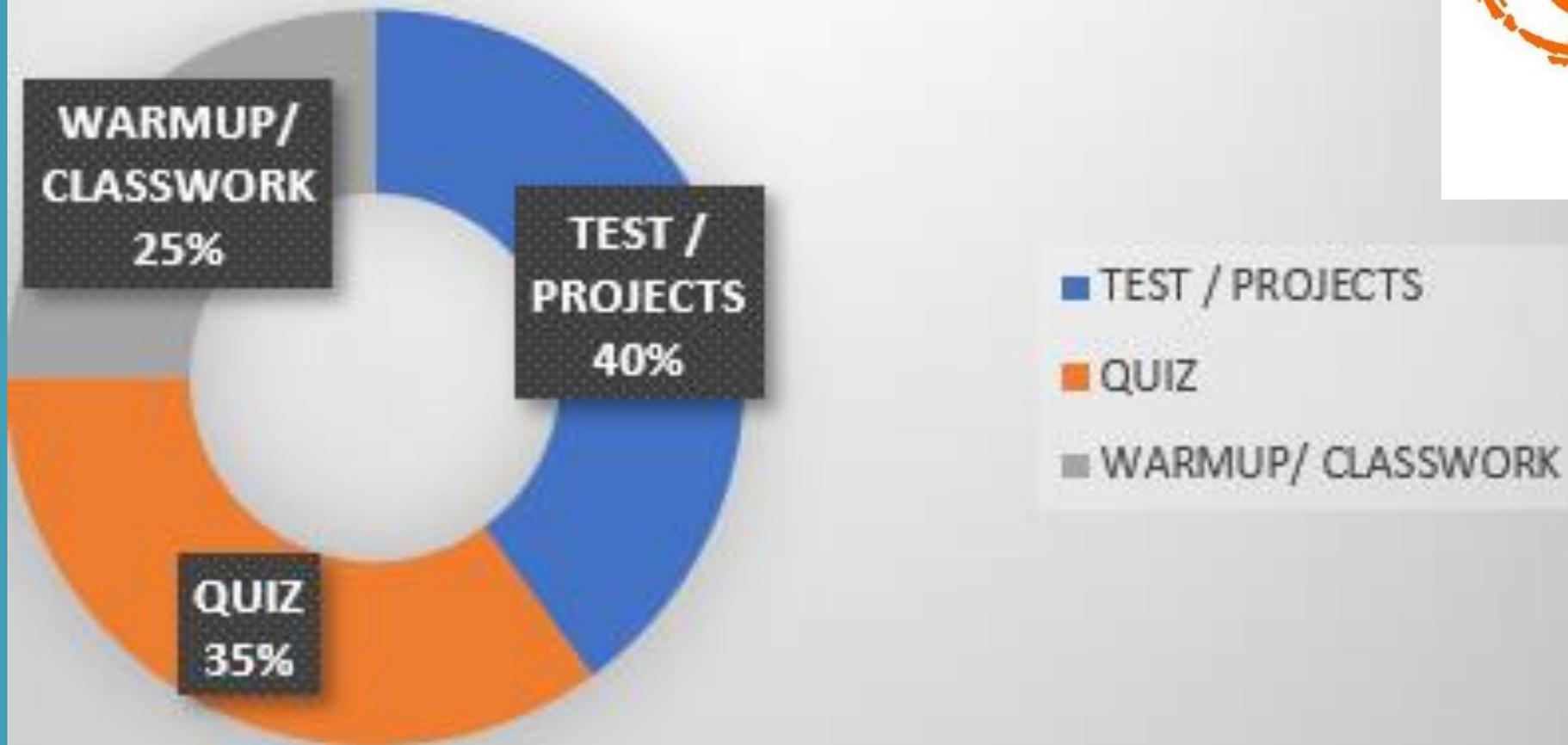
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The multiple-choice section is scored by computer. Each answer sheet is scanned, and the total number of correct responses equals the multiple-choice score.

4 The free-response section (essays and open-ended questions) and through-course performance tasks are scored at the annual AP Reading held during the first two weeks in June. Specially appointed college professors and experienced AP teachers score this section of the exam.

GRADES

Grade Computation



OFFICE HOURS

¹
TUESDAY & THURSDAY : 3:00 TO 4:00 P.M.

Room : E110



Notes and Books



Academic Integrity

¹
In any form or shape, I will not attempt to deceive my teacher and classmates by distorting the fact that I have mastered the information I need to learn in this class.

The Iceberg Illusion

Success is an iceberg



What People See

What People Don't See

Persistence

Failure

Sacrifice

Disappointment

Dedication

Hard work

Good habits

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