



Course Overview

High School | AP Statistics - Last Updated on April 2, 2025

DESCRIPTION

K-12 Content Area | Mission & Philosophy Statement

- With confidence and perseverance, young people can tackle complex and novel mathematical challenges, becoming skilled problem solvers who take ownership over their learning process.
- Young people possess the ability to reason mathematically, make conjectures, solve problems and build understanding through effective dialogue and collaboration.
- Learners exhibit critical inquiry through the deliberate asking of questions and the integration of conceptual understanding, reasoning abilities, and procedural fluency.
- Strategically selecting materials, technology, and other resources support mathematical learning and aid in achieving mathematical goals. (NCTM, 2024)

Course Description

AP Statistics is an introductory course to statistics meant to prepare students for the AP Statistics exam. The AP Statistics course will cover the two branches of statistics: descriptive and inferential. In the first half of the course descriptive topics covered will include data collection and classification, frequency distributions, measures of central tendency, measures of variation, probability, probability distributions, normal distributions, and the standard normal distribution. The second half of the course will focus on the inferential branch of statistics. Students will be generalizing from samples to populations, hypothesis testing, determining relationships among variables and making predictions, through the use of confidence intervals, T-tests, Z-tests, correlation and regression and chi-square tests. A graphing calculator will be required for use in this course.

STANDARDS

College Board - AP Statistics - Skills and Objectives (2020)

APSTATS.SSM.1A

APSTATS.SSM.1B

APSTATS.SSM.1C

APSTATS.SSM.1D

APSTATS.SSM.1E

APSTATS.SSM.1F

APSTATS.DA.2A

APSTATS.DA.2B

APSTATS.DA.2C

APSTATS.DA.2D

APSTATS.UPS.3A

APSTATS.UPS.3B

APSTATS.UPS.3C

APSTATS.UPS.3D

APSTATS.UPS.3E

APSTATS.SA.4A

APSTATS.SA.4B

APSTATS.SA.4C

APSTATS.SA.4D

APSTATS.SA.4E

APSTATS.VAR.1A

APSTATS.VAR.1B

APSTATS.VAR.1C

APSTATS.VAR.1D

APSTATS.VAR.1E



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APSTATS.VAR.1F

APSTATS.VAR.1G

APSTATS.VAR.1H

APSTATS.VAR.1I

APSTATS.VAR.1J

APSTATS.VAR.1K

APSTATS.VAR.2A

APSTATS.VAR.2B

APSTATS.VAR.2C

APSTATS.VAR.3A

APSTATS.VAR.3B

APSTATS.VAR.3C

APSTATS.VAR.3D

APSTATS.VAR.3E

APSTATS.VAR.4A

APSTATS.VAR.4B

APSTATS.VAR.4C

APSTATS.VAR.4D

APSTATS.VAR.4E

APSTATS.VAR.5A

APSTATS.VAR.5B

APSTATS.VAR.5C

APSTATS.VAR.5D

APSTATS.VAR.5E

APSTATS.VAR.5F

APSTATS.VAR.6A

APSTATS.VAR.6B

APSTATS.VAR.6C

APSTATS.VAR.6D

APSTATS.VAR.6E

APSTATS.VAR.6F

APSTATS.VAR.6G

APSTATS.VAR.6H

APSTATS.VAR.6I

APSTATS.VAR.6J

APSTATS.VAR.6K

APSTATS.VAR.7A

APSTATS.VAR.7B

APSTATS.VAR.7C

APSTATS.VAR.7D

APSTATS.VAR.7E

APSTATS.VAR.7F

APSTATS.VAR.7G

APSTATS.VAR.7H

APSTATS.VAR.7I

APSTATS.VAR.7J

APSTATS.VAR.7K

APSTATS.VAR.7L

APSTATS.VAR.7M

APSTATS.VAR.7N

APSTATS.VAR.8A

APSTATS.VAR.8B

APSTATS.VAR.8C

APSTATS.VAR.8D

APSTATS.VAR.8E

APSTATS.VAR.8F

APSTATS.VAR.8G

APSTATS.VAR.8H

APSTATS.VAR.8I

APSTATS.VAR.8J

APSTATS.VAR.8K

APSTATS.VAR.8L

APSTATS.VAR.8M

APSTATS.UNC.1A

APSTATS.UNC.1B

APSTATS.UNC.1C

APSTATS.UNC.1D

APSTATS.UNC.1E

APSTATS.UNC.1F

APSTATS.UNC.1G

APSTATS.UNC.1H

APSTATS.UNC.1I

APSTATS.UNC.1J

APSTATS.UNC.1K

APSTATS.UNC.1L

APSTATS.UNC.1M

APSTATS.UNC.1N

APSTATS.UNC.1O

APSTATS.UNC.1P

APSTATS.UNC.1Q

APSTATS.UNC.1R

APSTATS.UNC.1S

APSTATS.UNC.2A

APSTATS.UNC.3A

APSTATS.UNC.3B

APSTATS.UNC.3C

APSTATS.UNC.3D

APSTATS.UNC.3E

APSTATS.UNC.3F

APSTATS.UNC.3G



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APSTATS.UNC.3H	APSTATS.UNC.3I	APSTATS.UNC.3J	APSTATS.UNC.3K	APSTATS.UNC.3L
APSTATS.UNC.3M	APSTATS.UNC.3N	APSTATS.UNC.3O	APSTATS.UNC.3P	APSTATS.UNC.3Q
APSTATS.UNC.3R	APSTATS.UNC.3S	APSTATS.UNC.3T	APSTATS.UNC.3U	APSTATS.UNC.3V
APSTATS.UNC.4A	APSTATS.UNC.4B	APSTATS.UNC.4C	APSTATS.UNC.4D	APSTATS.UNC.4E
APSTATS.UNC.4F	APSTATS.UNC.4G	APSTATS.UNC.4H	APSTATS.UNC.4I	APSTATS.UNC.4J
APSTATS.UNC.4K	APSTATS.UNC.4L	APSTATS.UNC.4M	APSTATS.UNC.4N	APSTATS.UNC.4O
APSTATS.UNC.4P	APSTATS.UNC.4Q	APSTATS.UNC.4R	APSTATS.UNC.4S	APSTATS.UNC.4T
APSTATS.UNC.4U	APSTATS.UNC.4V	APSTATS.UNC.4W	APSTATS.UNC.4X	APSTATS.UNC.4Y
APSTATS.UNC.4Z	APSTATS.UNC.4AA	APSTATS.UNC.4AB	APSTATS.UNC.4AC	
APSTATS.UNC.4AD	APSTATS.UNC.4AE	APSTATS.UNC.4AF	APSTATS.UNC.4AG	
APSTATS.UNC.4AH	APSTATS.UNC.4AI	APSTATS.UNC.5A	APSTATS.UNC.5B	APSTATS.UNC.5C
APSTATS.UNC.5D	APSTATS.DAT.1A	APSTATS.DAT.1B	APSTATS.DAT.1C	APSTATS.DAT.1D
APSTATS.DAT.1E	APSTATS.DAT.1F	APSTATS.DAT.1G	APSTATS.DAT.3L	APSTATS.DAT.3K
APSTATS.DAT.3J	APSTATS.DAT.3I	APSTATS.DAT.3H	APSTATS.DAT.3G	APSTATS.DAT.3F
APSTATS.DAT.3E	APSTATS.DAT.3D	APSTATS.DAT.3C	APSTATS.DAT.3B	APSTATS.DAT.3A
APSTATS.DAT.2E	APSTATS.DAT.2D	APSTATS.DAT.2C	APSTATS.DAT.2B	APSTATS.DAT.2A
APSTATS.DAT.1J	APSTATS.DAT.1H	APSTATS.DAT.1I		

COURSE OBJECTIVES

This course is aligned to College Board Advanced Placement Statistics skills and objectives.



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ASSESSMENT TYPES

The following assessment types will be used during the course:

- Diagnostic Assessments
- Formative Assessments
- Summative Assessments

SUGGESTED METHODS OF INSTRUCTION

Below is a list of suggested strategies for high-quality instruction in Mathematics:

- Instructional components outlined in the *Framework for Teaching* by Charlotte Danielson
- Teacher-Centered Instruction
- Inquiry-Based Learning
- Small Group Instruction
- Cooperative Learning
- Student-Centered/Constructivist Approach
- Project-Based Learning
- Flipped Classroom

RESOURCES

District Approved Program Resources	District Approved Supplemental Resources	District Approved Technology Resources
<p><i>The Practice of Statistics Fifth Edition</i> for the AP Exam (Hardcover) by Daren S. Starnes, Josh Tabor, Daniel S. Yates, & David S. 2015</p>	<ul style="list-style-type: none"> • College Board AP Classroom https://apclassroom.collegeboard.org/ • TI-Calculators 84Central http://education.ti.com/en/84activitycentral/us/statistics • Khanacademy https://www.khanacademy.org/math/ap-statistics • Stats-Medic Review Course https://www.statsmedic.com/ • Teacher created materials 	<p>TI84CE Graphing Calculators (with software programs)</p>