

CVHS AP STATISTICS SYLLABUS 2021-2022

Welcome to AP Statistics! AP Statistics is an exciting course dealing with collecting, analyzing, and drawing conclusions from data. The course is broken into four main conceptual themes:

1. Sampling and Experimentation: Planning and conducting a study
2. Exploring Data: Describing patterns and departures from patterns
3. Anticipating Patterns: Exploring random phenomena using probability and simulation
4. Statistical Inference: Estimating population parameters and testing hypotheses

We will discuss all of these themes throughout the course, sometimes individually and sometimes in combination. The course will build throughout the year until we are using all of the concepts together to discuss real world data. The course is broken into large units with each chapter in the text representing a smaller chunk of that unit.

Course Materials

Primary Textbook

Stats: Modeling the World, 4th Edition by Bock, Velleman, and DeVeaux

This is an excellent textbook containing the entire AP Statistics curriculum. The book is not like any other Math textbook you have ever read; it is easy to read and very descriptive. You will read every chapter in the book and have many problem assignments from the book. It is extremely important to read the sections we are working on before coming to class to help you learn the concepts. This is an online textbook – you will be given instructions to gain access in class. You will log in at www.mymathlabforschool.com

Statcrunch online statistical software

We will do some activities and analyze some data sets using the online statistical package www.statcrunch.com. Students will be notified the day before if they will need to bring their laptops so they can access the site in class. This will also be very helpful for projects.

TI-84 Plus graphing Calculators

The entire course makes use of a graphing calculator with a Statistics package. You will use these on homework, quizzes, and tests. Calculators will be provided in class, but they cannot be taken home. It would be very helpful to have your own calculator to use on homework assignments. Use of the calculator is crucial to success on many in class assessments and on the AP Exam, so students are expected to make themselves comfortable with the calculator.

Tests (Multiple Choice Assessments):

Multiple choice assessments will be given once per grading cycle and are worth 30% of the cycle grade. Multiple choice assessments are cumulative, but most material will come from the most recent unit.

Quizzes (Free Response Assessments):

Free response assessments will be given roughly once per week. Each free response assessment will be a single AP style free response question. Free response assessments are worth 50% of the cycle grade (roughly 10% per assessment).

Homework:

Homework problems will primarily be assigned through the online homework system associated with the textbook. assignment will have a specified due date and time in the assignment. Occasionally homework will be assigned from a handout or AP review book. Homework assignments will be worth 20% of the cycle grade.

The HUB:

All assignments and due dates will be posted on the HUB, so you can always visit the HUB to double check when homework is due and when tests and quizzes are scheduled.

Make-up Tests and Quizzes

If you are absent on the day of a test or a quiz, you must make up the test or quiz DURING LUNCH or BEFORE SCHOOL (7:30AM-8:20AM).

Test/Quiz Retake Policy:

Each student may retake up to 2 multiple choice or free response assessments on which they received a failing grade each grading cycle. The retake will be an alternate assessment on the same content and the highest grade to be entered into the grade book for a retake is 70. Students must request the retake by emailing Mr. Barnes from their HISD email address within 24 hours of receiving the assignment back. The retake will be scheduled during SSEP or lunch within one week.

Grading Policy:

Grades will be computed using a weighted grading scale. The number of assignments in each category may vary from cycle to cycle, but the final grade will always be computed in the same manner:

Tests:	30%
Quizzes:	50%
Homework:	20%

Cheating:

The Carnegie Vanguard Honor Code states that students may not give or receive unauthorized aid on any assignment or exam. In AP Statistics, this depends on the type of assignment.

- For homework assignments students may work together to discuss and answer problems, consult their textbook or other resource, and ask other people (such as teachers or tutors) for help. Cheating on a homework assignment is defined as copying the answers to that assignment from another student or resource.
- For projects students may consult other students in their group (for a group project only) or Mr. Barnes for help. Cheating on a project is defined as copying any or all of the project from another student, group, or another source (including online sources), or having another person complete the assignment for you.
- For free response and multiple choice assessments, students may use an AP Statistics formula chart and a calculator, but nothing else. Cheating on a free response or multiple choice assessment is defined as copying from another student or an outside source, using a phone or computer to access any materials related to the assessment, or discussing questions from the assessment with other students before all students have completed the assessment.

If a student cheats on an assignment, they will receive a 0 for the grade on that assignment (with no opportunity to retake the assignment), their parent/guardian will be contacted, and they will be referred to the administration.

Extra Help:

Mr. Barnes is available before school and during lunch most days to answer questions or provide extra help, as well as during SSEP. Any student is welcome to come in. If you wish to come in for help, please make an appointment at least 24 hours in advance so Mr. Barnes can plan accordingly. It is Mr. Barnes' goal that every student be successful in AP Statistics, so don't be shy if you have questions or need help. You can also contact him by email at jbarnes2@houstonisd.org.