

AP Statistics Syllabus- 2019-2020

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Course Description:

AP Statistics is the high school equivalent of a one semester, introductory college statistics course. In this course, students will develop strategies for collecting, organizing, analyzing, and drawing conclusions from data. Students design and tabulate results from surveys and experiments. Probability and simulations aid students in constructing models for chance phenomena. Sampling distributions provide the logical structure for confidence intervals and hypothesis tests. Students use a TI-83/84 graphing calculator. To develop effective statistical communication skills, students are required to prepare frequent written analyses of real data, regular completion of write-ups of released AP® Statistics free-response problems (hereafter referred to as FRQ's) and use rubrics to self-score timed AP® Statistics FRQ's.

Class Expectations:

Students are expected to be present every day and communicate absences with Ms. Andrews either by text or email, particularly if absences are prolonged. Students are expected to be respectful and prepared. Smartphones may be needed (though not required) occasionally, but electronics are otherwise expected to be kept out of sight/mind as per FHS Student Handbook policies except for specific academic purposes.

Required Materials

Students will need the textbook (Stats Modeling the World or Intro Stats, both will work), a notebook (this will not be graded, so the format/organization is the student's choice), and a TI-83 (or above, though we use the TI-84 most frequently) calculator. We will use the TI-84 in class, but students may check out a TI-83* from the library. Students are expected to complete work outside of class that will require the calculator. Students should bring these materials to class every day. **The TI-83 lacks one function necessary for the work in second semester, and therefore on the AP exam.* Students must supply their own calculator on the AP exam, so if at all possible, it would be beneficial to purchase a TI-84.

Grading

Your overall grade is calculated based on Chapter Quizzes (10%) and Unit Tests (90%). Daily work will not be recorded in Synergy, but each unit students will be given a stamp sheet on which daily *independent* classwork and homework assignments will be checked off. Stamps can be earned for on-time work only and their uses will be discussed below.

Tests are made up of 20 multiple choice questions, and 3 Free Response Questions (FRQ's). Students will be limited to a 90 minute period, 45 minutes for each section. Notes are not allowed on tests except for the AP provided formula sheet.

Students who miss the test day for any reason will be given an alternate version of the test. If the absence was unexcused and/or prior notification (via email or text) was not given, the student will not be eligible for test revisions regardless of whether they have earned the stamps for it. Missed tests must be made up within one week and it is the student's responsibility to schedule a time with the teacher regardless of whether tutorials are available. If a student is absent (unexcused) more than one test day in a semester, they will automatically receive a 40% on that test. Further unexcused absences on test days will automatically result in 0%. *

Retakes on tests are not available, but students who earn at least 75% of the stamps available in a unit (this amount varies) will be given 10 minutes of in-class time to revise their test after it has been graded. Stamps can also be used to make up for missed or low-score quizzes (3 quiz points per stamp).

Chapter quizzes are given as group quizzes. Students are allowed to use their notes, but no books or electronics. Quizzes cannot be made up if a student misses them, because we will go over them the following class.

Scoring for Tests

The Unit Tests are intended to represent half of an actual AP Exam, and will be scored similarly. That scoring sheet can be found here:

<https://secure-media.collegeboard.org/apc/statistics-2002-released-exam-scoring-worksheet.pdf>

Tests consist of:

Multiple Choice:

20 Questions - number of correct x 2= weighted score

FRQ:

3 Questions- scored 1-4 for each x 5=weighted score

The weighted FRQ and MC scores will be added up to create the overall weighted score. In the gradebook, 20 will be added to the score, not to exceed 100 points. There will be 4 Tests in each semester, and anywhere from 8-16 Chapter Quizzes (much fewer in second semester).

Unit tests and chapter quizzes cannot be retaken. Students needing to improve their grade may do so ONLY if they have earned enough stamps to do revisions or corrections.

Daily Assignments:

Daily reading and practice are very important in this class, but will not be entered into the gradebook (stamp sheet only). Students should plan to read about 10 pages per class, and complete no more than 5 practice problems for homework. Assigned work needs to be kept organized and clearly labeled so it can be easily accessed and stamped for.

Pass/No Pass Policy:

Because AP Statistics is not a graduation requirement, students may elect to take it as a Pass/No Pass grade. This means it will not affect their GPA, but students should be aware that colleges consider a "Pass" to be the equivalent of a "D." Students wishing to take this option must complete the form and have it signed within the first 15 days of the start of the semester.

Accessing Class Materials:

Students may access materials through my website.

**The reasons for the strict attendance policy on test days has several purposes. Tutorial is often busy and loud, and is not ideal for a student making up an AP Stats test. Scheduling a time for a student to take a 90 minute test in a quiet space is very difficult and often requires that the teacher gives up her prep as we cannot have students in the math office. When students do not take the test quickly, we are unable to go over the test as a class, which is very important to the learning process. Issues of test security arise when multiple classes have taken the test. Early and consistent communication with your teacher is key when emergencies arise.*