

Advanced Placement Statistics
Course Syllabus
Mrs. Cope
2019-2020

Contact Information

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Course Description

Students in AP Statistics are exposed to four broad conceptual themes: Exploring Data, Sampling and Experimentation, Anticipating Patterns, and Statistical Inference. Students will make use of data both in graphical and numerical forms to observe patterns and departures from patterns. Included under planning a study, students will develop a plan by deciding what and how to measure in order to collect valid information. Probability theory will allow students anticipate patterns and produce output under given models. Finally in statistical inferences, students will develop conclusions through hypotheses testing. In contrast to many math courses, this course will require reading the text and writing both in daily instruction and assessments. AP Statistics is an activity-based course in which students will construct their own understanding of concepts through hands-on projects.

Course Materials

Primary Text: Starnes, Yates, & Moore. *The Practice of Statistics*. 4th ed., W. H. Freeman & Co., 2010. In addition to the primary text, teaching materials will include newspapers, videos, magazines, and Internet sources.

Students will be provided with a copy of the formula sheets provided with the AP Exam to use throughout the year on class assignments and homework.

A graphing calculator of the TI-83 or TI-84 family is highly recommended and will be used both in class and for homework. Students will have access to a classroom set of such calculators during the school day. If a student is unable to purchase a graphing calculator for use outside the classroom, arrangements can be made with the teacher.

COLLEGE CREDIT

You can obtain college credit for this course either through the AP Exam or the CHS program through Seton Hill. Guidance oversees the registration for both. More specific information is to come.

Classroom Expectations

My classroom expectations are defined by our school-wide BRAVE expectations:

Be Safe: Listen to staff, Maintain personal space

Respect Others: Be on time, Be polite, Use appropriate language and tone

Accountable: Be prepared, Be honest, Do your own work,

Victorious: Do your best work, Celebrate academic success

Enthusiastic: Have a positive attitude, Take ownership of learning

Special consideration needs to be given to the importance of Academic Integrity. I expect all my students to hold their work and learning in the highest regard. The following are the Academic Integrity expectations for this course:

- Do your own work
- Take pride in your work
- Show your work
- Ask for help if you are confused
- Help you peers to understand their work
- Do no copy or take pictures of someone's work
- Do no discuss test questions or answers
- Do no just give answers or air drop
- Do not give up
- Do not give your completed work to someone

Any violations of BRAVE expectations or Academic Integrity expectations will be handled as defined by the EFHS student handbook.

Grades: Grades are determined by a combination of tests, quizzes, class work/homework, and projects. Each category is weighted. 60% of your marking period grade will be tests and quizzes, 40% will be class assignments, projects and participation.

What you can expect

- Students will be expected to read the coordinating section in the textbook and complete practice assignments outside of the classroom.
- In class, we will use a variety of action-based strategies to practice the concepts. We will utilize group and individual work under my guidance and assistance.
- All assignments/classwork will be turned in via Canvas. You will be expected to keep all hard copies in an organized notebook. On occasion, you will be requested to produce the hard copy of your work either as a single graded assignment or as a completed graded notebook.

ASSIGNMENTS

Assignments and practice are graded on effort. These assignments and practice are given to hone your skill and understanding. I will gladly go over questions from assignments on request either individually or as a class. If you do not understand a question from a practice, ASK!

Although you will benefit the most from completing assignments and practice at the pace of the course, the hard deadline for all practice and assignments is the date of chapter test. No assignments will be accepted after the coordinating chapter test has been given.

Tests and Quizzes

Tests will be given at the end of every unit. The tests will be a combination of both multiple choice and open-ended questions. Content on a test will be cumulative and therefore will assess a student's knowledge on both material from the current unit and from any previous unit taught.

THERE WILL BE A COMPREHENSIVE FINAL EXAM.

Quizzes will be both announced and unannounced. Content for the quizzes will mainly focus on the content being covered in class and on homework at that time.

When you are absent on the day of a test or quiz or on the day prior to the test when the class completed the review, you will be expected to make arrangements with me to make-up the test or quiz on your own time. Because of the pace of this course, you would miss valuable new information if you were to take the make-up during class time. The deadline for completing all make-up tests and quizzes is 10 school days after the test has been given to the class.

Due to the high percent allotted to test/quizzes in the grading, you are permitted to re-take ONE TEST/QUIZ each marking period. The re-test grade will replace the original test, for better or for worse. You have 10 school days after the grades are posted into PowerSchool to take the re-test. There will be no re-tests permitted the last week of any marking period.

Help Available

If you are ever feeling like you do not understand or are struggling in this course, let me know as soon as possible. We will make arrangements to get you the additional help you need. The longer you wait to get help, the harder it will be to get you up to speed. The material in this course is very cumulative, for example the material we learn in Chapter 2 we will use throughout the remaining course.