

AP* Statistics - Syllabus



Course Description

AP* (Advanced Placement) coursework is administered through College Board and allows high-performing students the opportunity to earn college credits while in high school. The course is weighted as an AP* course and is taught at a higher level. Students will learn various concepts relating to the gathering, experimenting, manipulation of, and testing data relating to the study of statistics. Only upon receiving a successful score on the AP* exam in May, will students receive college credit for an introductory statistics course. What will equate to a successful score depends on the college you attend.

Course Prerequisites

This course requires a student to have successfully completed Algebra II. The class mainly consist of juniors and seniors.

Text and Suggested Supplies

Text supplied by school: The Practice of Statistics, sixth edition

Supplies: TI - 84+ CE, supplies to take notes and be organized

If you already have an older TI Model, it will work, but might not contain all required functions, or desirable features

Methodology

This is a lecture-style course where students are expected to take notes. The teacher will provide several examples for the students to follow and if time allows, guided practice during class. The students are expected to complete every assignment, read their text, and review their work on a daily basis. There are also numerous labs where students will be expected to be actively engaged in gathering data as well as the ongoing discussion during the lab. Students should be prepared for quizzes and projects given at the teacher's discretion.

Grading

This is a lecture-style course where students are expected to take notes and complete daily assignments. The teacher will provide several examples for the students to follow and if time allows, guided practice during class. The students are expected to complete every assignment, read their text, and review their work on a daily basis. The students should be prepared for quizzes and projects given at the teacher's discretion. No late assignments will receive credit. If

a student is absent, their missed assignment, quiz, or test will have to be made up within the allotted time per student code of conduct. **All unexcused absences will only be awarded 70% of a students earned grade per school policy.

Assignments will be graded based on completion most of the time. Every problem must be attempted in order to receive full credit. Assignments will be graded on a random basis. This is designed to prepare you for college where no homework grades are given.

Course work will be graded on total points:	90%	A
	80%	B
	70%	C
	60%	D

Semester grades will be weighted as	Quarter 1 (or 3)	35%	follows:
	Quarter 2 (or 4)	35%	
	Exam	30%	
	Total	100%	

Policies and Procedures SEE STUDENT CODE OF CONDUCT

- Students are expected to be on time and prepared for every class. After the first 10 minutes of class, you will not only be marked as unexcused tardy but also have a referral submitted for skipping class.
- The student is expected to be in his/her seat when the bell rings and be ready to work.
- Students are not allowed to be out of their seat without permission.
- The only electronic device allowed to be used during class is a calculator. Cell phones are not to be used as calculators. Cell phones and electronic devices are to be put away while entering the classroom.
- It is the student's responsibility to find what they missed if/when they are absent.
- The only time a student is allowed to sleep or lay his/her head down in class is after a quiz or test. If the student is too ill to sit up and participate, they will be given a pass to the clinic.
- No food or drink other than water is allowed in the classroom.
- Restroom passes are given as needed. Students are expected to not abuse this. Student is expected to leave phone in the classroom when they go.

Course Objectives

1. Student will be able to design studies that allow for statistical inference.
2. Students will gain an understanding of univariate and bivariate data, and how to apply it to data sets.
3. Students will obtain the ability to identify a normal distribution, and be able to make statistical inferences based on this observation.
4. Students will extend their understanding of probability, and how it relates to probability distributions.
5. Students will understand the different methods for sampling distributions, and what it implies for statistical inferences.
6. Students will demonstrate proficiency in identifying the correct test for inference for both means and proportions.