

AP Statistics, 2021-2022
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Welcome to AP Statistics!

Philosophy

Statistics is everywhere in today's society. You do not go a single day without hearing about some study and/or conclusions from a study or an experiment. AP Statistics is designed to be an interactive, thought provoking course, which allows you to construct your own understanding of concepts and techniques of statistics. As such, you will be pushed to think at a higher level. This course will impact your thinking and the way in which you view the world. The goal of the course is to teach you to think carefully about collecting and analyzing data. As such, examples, assignments, projects, etc. will always be tied to the real world. If you find statistics, bring them in and share what you have found.

I am not here to lecture to you, but to facilitate your learning and guide your explorations and formation of hypotheses. You will learn appropriate statistical techniques and a variety of ways to communicate them within the context of statistical activities and experiences. You will gain a working knowledge of statistical vocabulary and will be expected to use it correctly every day. You will also learn to be a competent interpreter and investigator of statistical data and information. In order to do so, you will be expected to be actively engaged in class. You will learn how to make connections between all aspects of the statistical process, including design, analysis, and conclusions. You will be responsible for communicating methods, results, and interpretations using the correct vocabulary.

Special Requirements

As this is an AP level class, there will be several extra requirements:

- You will be required to take the AP Statistics exam at the beginning of May 2022 • You will be expected to take a three-hour practice test outside of school in April 2022.
- You will need to attend before or after-school study sessions when necessary.

Technology

You are expected to use a graphing calculator at all suitable times. You will need to have access to a TI-84 calculator throughout the course and on the AP exam. Appropriate calculator skills will be taught throughout the course. (Recommended calculator: TI-84 Plus CE)

Warning!

This is not your typical "math" class. Although strong math skills are beneficial, reading, writing, and critical thinking skills are necessary for success in this class.

Trying to decide if you want to take AP Stats? Here's some advice from previous AP Stats students:

- "Take it! It's really interesting and has no scary-math-stuff." (Disclaimer: probability is a little scary)
- "It's not a math class, it's a theory-based course with critical thinking."
- "You should take it; it can be applied to any college major and it's a nice break from "normal" math and a great alternative to calc!" • "Don't take it, if you don't want to work."
- "It's a lot of work, but it is math that you will use often and is beneficial."
- "Think about your workload and decide whether you can handle this class or not."

Already signed up for the class? Here's some advice from previous AP Stats students:

- "Actually DO the homework – it helps!"
- "Always do the homework, because that really helped me grasp the concepts. You have to try it yourself, to truly get it."

- “Don’t let senioritis kill you! The most important part of the class comes at the end.”
- “Study early on – study as often as you can, don’t cram!
- “Go to class. If you attend class, you’ll do fine.”

Questions?

If you have any questions, please email me or send me a remind message (see summer assignment below).

AP Statistics Summer Assignments

Summer Assignment #1 – REMIND Sign-up – Due ASAP

Follow these directions to sign up for the AP Stats 21-22 Remind:

- Use your First and Last Name when signing up
- Text: @bgstats22 To: 81010

Summer Assignment #2– Getting to know you! – Due Tuesday, August 3, 2021

The reason for this assignment is two-fold. First, I want to get to know a little bit about you. Second, this course requires good reading and writing skills. Paying attention to the details of a question and then answering the question appropriately is critical to your success in this course. With that in mind, please respond to the following questions. Your responses should be written in complete sentences. You may number your responses or write your answers as an essay in paragraph form. Your response should be typed, double-spaced, and in a 12-point font. Please send this via email as an attachment.

1. What extracurricular activities are you involved at school? Outside of school?
2. Do you plan to have a job during the school year? If so, how many hours do you plan to work each week?
3. What AP courses have you taken? How did you do in the class? On the exam?
4. What AP courses, other than statistics, are you taking this school year?
5. What math class did you take in the 2020-2021 school year? How did you do? Did you enjoy the class? Are you taking a math class simultaneously with AP Statistics this school year?
6. This statistics course involves quite a bit of writing. How do you feel about writing? Do you feel that writing is a strength or a weakness for you?
7. What do you plan on doing after you graduate from high school? If it is college, what do you plan on majoring in? Is there a particular college that you’d like to attend?
8. You will be expected to do homework most every night in this course. Is this something you feel that you can commit to? Please explain.
9. Why did you choose to take this course?
10. Please include anything else that you would like me to know (optional).

Supply List

Required Material

- Graphing Calculator (recommended: TI-84*)
- Loose-leaf notebook paper
- Red pen for grading
- #2 Pencils

Optional Material (BG's Wish List)

- Copy Paper
- Tissues
- Hand Sanitizer
- Lysol Wipes

*TI-84 Plus CE Calculators are available for "rent". Please bring in a ream of copy paper and you may check out a calculator to use for the year and on the AP exam in May.