

# Advanced Placement Statistics: Introduction and Summer Assignments

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Welcome to Advanced Placement Statistics. Statistics is both a fascinating mathematical field and a powerful scientific tool. This course studies the collection, organization, analysis, and interpretation of data. Although the mathematics department is offering this course, the course could just as appropriately be offered through the science or humanities departments. It is going to be quite different than any other math class you have taken here at school. In this class, the emphasis is placed on your ability to think, reason, explain, and support. Computations are often secondary. **The language component is significant.** The most important outcome of this course is that you **learn to communicate statistical findings with linguistic precision.** You will be required to analyze subtle nuances in data, wording, and statistical interpretation. Fluent use and understanding of vocabulary are fundamental skills. Word choice is vital.

We cover a great deal of material in an exceedingly limited amount of time, so please be prepared to spend a significant amount of time working on statistics outside of class. This begins with your summer assignment. Completion of this assignment will allow us to spend extra time on the more difficult topics. This introductory material is very basic, though, and is in no way indicative of the academic rigor of the course.

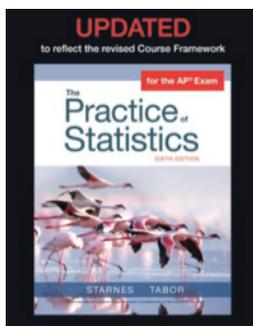
You should give yourself **at least** three solid weeks to complete this. If you find something confusing, please email me and I will help you. I generally check my email once per week during the summer, so please plan accordingly.

## Materials Needed for Course

- Graphing calculator (the TI-84 is strongly recommended, but some students prefer the TI-Inspire)

## Required Books

- The school will purchase on your behalf a subscription to the eBook, *The Practice of Statistics, 6<sup>th</sup> Ed., UPDATED*, along with Sapling Plus, which will give you online access to course materials.
- You do not need to purchase the book yourself. The cost will be billed to your account.



## Assignment I – Signup for Remind

- Please sign up for our Remind account. This will allow me to send you quick messages without having to use email or PCR. I promise to use it sparingly.
- To signup, do one of the following:
  - Click this link: <https://www.remind.com/join/gk44ak>
  - text @gk44ak to the number 81010

## Assignment II – Sign Up For Khan Academy

- Please sign up for our Khan Academy class. We will use this site for remedial multiple-choice review.
- To register, click the following link: <https://www.khanacademy.org/join/DYD2VKDH>

## Assignment III – Complete Khan Academy Assignments

- We will not be covering the first two chapters in class. I will be using Khan Academy to make sure you have a strong understanding of these elementary prerequisite concepts.
- If you need help, you can watch the videos in Khan Academy. Each question has a linked “help video,” as well as a “hint” feature.
- There are 26 separate assignments for you to complete on Khan Academy.
- Each assignment is approximately 4 multiple choice questions.
- You will be graded on both accuracy and completion. You may redo the Khan Academy assignments before the due date as often as you like.
- These are remedial concepts that I expect you to understand when you come to school in September.
- Be ready for an exam during the first week of school. Sometimes we have one; sometimes we don't.

**WARNING:** When you first log on to AP Statistics on Khan Academy, you might **not** see any assignments posted. The program sometimes does not allow me to open the assignments for you until after you sign up for the Khan Academy class. If this happens, please email me to let me know you have registered. Once I get the message that you have signed up, I can then open the assignments for you. **Please allow about a week from the time you first sign up for Khan Academy to the time the assignments become available.**

## Assignment Guidelines:

- This assignment is due by 7:50am on the first day of school
- This assignment will be graded on both effort and accuracy.