Advanced Placement Statistics: Summer Packet

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 basic, though, and is in no way indicative of the academic rigor of the course. I strongly encourage you to browse through the textbook and examine the different topics we will explore.

You should give yourself **at least** three solid weeks to complete this. If you find something confusing, please email me (bstaub@whschool.org) and I will help you. I generally check my email once per week during the summer, so please plan accordingly. Also, there are many wonderful resources available to you and I have my own personal notes on Haiku. Good luck and I'll see you in September!
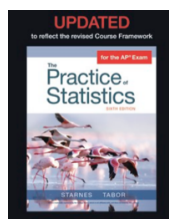
Materials Needed for Course
- You will need a 3-ring binder devoted only to this class. There are a lot of handouts.
  - I will sometimes collect this binder, so it should be only for AP Statistics
- Some students choose to also use some sort of bound notebook (e.g., composition, spiral) in addition to the binder for note taking. This is up to you.
- Graphing calculator (the TI-84 is strongly recommended, but some students prefer the TI-Inspire)
- Scanner App for your phone such as Scanner Pro or Genius Scan

Required Books

- you need what the authors call "**UPDATED Versions**" of Practice of Statistics & Strive for Five!

Be sure to buy these **UPDATED** 6th edition and not the original edition!
The AP curriculum changed, and you will need the updated books.

1. **UPDATED Version of Practice of Statistics, 6th Edition**, by Starnes and Tabor (ISBN-13: 978-1319269296)

2. **UPDATED Version of Strive for Five: Preparing for the AP Statistics Exam** (ISBN: 9781319283094)

3. **Multiple Choice & Free Response Questions in Preparation for the AP Statistics Examination**, 4th edition, by D&S Marketing Systems (ISBN: 1-934780-16-2).

Assignment I – Signup for PowerSchool

- To access our class on PowerSchool (formerly Haiku)
  - Go to **https://whschool.learning.powerschool.com/bstaub/apstatistics/signup**
  - Use the code **WHSTA** to access our PowerSchool site.

Assignment II – 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/43kke3d
  - text @43kke3d to the number 81010

Assignment III – 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 IV – 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, these topics are all found in the first two chapters of the text. I recommend reading the textbook and taking notes on what you read. The book is excellent.
- You can also 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 logon to AP Statistics on Khan Academy, you will **not** see any assignments posted. The program does not allow me to open the assignments to you until after you sign up for the Khan Academy class. Once I get the message that you have signed up, I can then open up 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
- If it is submitted in full by July 31 (11:59pm), you will receive a 10% bonus on the assignment.
- If it is submitted in full by August 31 (11:59pm), you will receive a 5% bonus on the assignment.
- This assignment will be graded on both effort and accuracy.