**Course Syllabus for AP Statistics -** Ms. Combs, dcombs@dallasisd.org room 135

Combsapstats.weebly.com (ALL presentations and notes are here)

Welcome to Advanced Placement Statistics for the 2017-2018 school year. This course is equivalent to a one-semester, introductory, non-calculus based college course in statistics. The purpose of this course is to introduce you to the major concepts and tools for collecting, analyzing, and drawing conclusions from data while preparing to successfully complete the AP examination.

To be successful in this class (*and pass the class*), you will be spending approximately one hour per night on homework. These homework assignments must be turned in when they are DUE in order to receive full credit. LATE work is accepted using the following guidelines:

* One day late can receive a maximum of a 70, Three days late = 50 More than three days late = 0

I do not accept any work that is more than 3 days late. It is **YOUR** responsibility to check for and complete missing work. If you are absent on the day of an exam, you will take the exam the next day AFTER school. If you are absent for several days, you have as many days to make up work as you were absent. Late work policies still apply, taking into account the absent days. If you are aware that you are going to miss class due to athletics, doctor’s appointment, etc. you must notify me **by email** ahead of time. **dcombs@dallasisd.org**You are then responsible for getting the work and taking notes from my weebly site. Combsapstats.weebly.com

**Materials needed**

* 1 ½ in. 3- Ring Binder with 5 dividers, Paper/Pencil - work in pen will not be accepted.
* TI 83/84 Calculator (can be checked out from Hillcrest for $10 for the year) You MUST either rent a calculator, or provide your own, as you WILL be required to use it outside of school. If you own an Nspire, that will work too. My Nspires are not available to take home.
* Computer and Internet Access (The school library has computer/internet/printer)
* Email address (if you do not already have a professional email address, now is the time to get one)

**Expectations**

* Daily Attendance (District policy states that “students must attend 90% of the class time. This applies to excused and unexcused absences. On block schedule, we cover TWO days of learning each day.
* Promptness – be on time –I will count you tardy if you come in my room after the tardy bell.
* Preparation of assignments in a timely manner. **The maximum grade on late work is a 70.**
* Cell phones are a huge distraction in class. Put your phone away. If your cell phone is out, I **will** take it up and turn it into the office. **I never return phones that I take up in class**. That said, on occasion you will be specifically asked by me to use your phone in class to help with an assignment.
* All materials and work brought to class daily. Your textbook should remain at home as that is a source of your Homework and reading assignments. YOU ARE EXPECTED TO READ THE TEXTBOOK.
* Timely completion of six research/analysis projects. Late work grading policy is stated above.
* Attendance at a minimum of 10, tutoring sessions during the year. (3 in the Fall and 7 in the Spring)
* Mature behavior – if you are not serious about learning the subject matter, please withdraw from the class and do not hinder the learning of other students. This is a college level course. If learning is not your priority then you should not be in my class.
* AP Exam (not required but encouraged) You will take a FINAL EXAM if you do not take the AP Exam.
* **Join my Remind class for 2018 Stats by sending a text to 81010** the message is **@hhsstats18**

(parents MUST join my Remind class as well)

* Sign up for Dropbox, a FREE way to save your files on the cloud. USE Mrs Combs link and earn a FREE 100! [**https://db.tt/WCRt33ur**](https://db.tt/WCRt33ur)

**Grading Policy**

* Tests = 40% Quizzes = 25%
* Classwork/Homework = 10% Projects = 25%

**Tutoring**

“A” Day mornings at 8:45 and after school tutoring will be available on Tuesday and Wednesday from 4:15pm-5:45pm. Additional tutoring can be requested by appointment only. If you tell me you are coming for help, then you need to show up. Students will be required to attend a minimum of 7 AP Test tutoring sessions during the Spring semester, and are also encouraged to attend both of the Saturday AP Review sessions in December and April. (exact dates will be announced later) Students may email dcombs@dallasisd.org for additional help.

**Cheating policy**

I have zero tolerance for cheating. Scholastic dishonesty includes, but is not limited to, cheating on a test, plagiarism, and collusion. We, the Math Department of Hillcrest High School, take issues of dishonesty very seriously. If a student is caught exhibiting academic dishonesty, the student will receive is a zero for the assignment/exam.

**4 week evaluation**

This is a college level class and therefore it is only for the most serious students. I will evaluate your grades and mastery of the AP Statistics concepts after the first 4 weeks of class in order to best place each student in a class where they can be successful. If at that time you have not mastered the concepts or are lacking the skills and effort required by this course, *I will recommend that you drop the class* so that you do not waste time in a class where you might not receive credit. Please speak to your counselor about whether or not you will graduate on minimum plan without this class credit. This is very important if you plan on attending a university after graduation.

**Conferences**

To set up a conference, parents may call the Hillcrest office at 972-502-6800 and ask to speak to a counselor to set up a conference. Or, you may email me at dcombs@dallasisd.org with questions.

**Course Outline for AP Statistics**

**1st six weeks – Descriptive Statistics for Univariate and Bivariate Data**

* Topics – Types of variables, graphical representations, measures of center and spread, outliers, the empirical rule, correlation, regression, marginal and conditional distributions
* **Project 1** – Analysis of univariate data using appropriate visual, verbal, and numerical descriptions.

**2nd six weeks – Experimental Design**

* Topics – Nonlinear regression, surveys, observational studies, experiments, types of sampling, bias, simulations, probability rules, expected value
* **Project 2** – Conducting a survey

**3rd six weeks – Random Variables and Probability Distributions**

* Topics – Rules for means and variances, binomial distribution, geometric distribution, normal distributions, sampling distributions of proportions and means, Central Limit Theorem
* **Project 3** – 8 articles on experiments, studies, and surveys.

**Semester Exam – Comprehensive**

**4th six weeks – Probability Distributions and Sampling Distributions**

* Topics –Point estimation, confidence intervals, hypothesis testing for mean and proportions, type I and type II errors, power of a test, t-distribution.
* **Project 4** – Data collection and poster presentation as a group project.

**5th six weeks – Inference for Means and Proportions**

* Topics –Significance tests continued, paired data, two sample tests, chi square tests for categorical data, linear regression t-test
* **Project 5** – Analysis of data from Project 4.

**6th six weeks – Review for AP Exam**

* Topics –AP Review and Practice Exam
* **Project 6** – **Six Weeks Test Grade** – Collection and analysis of data with oral presentation.

AP Statistics 2017 – 2018 syllabus – Diane Combs dcombs@dallasisd.org

I, (Student’s name)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ acknowledge that I have read and agree to the above AP Statistics syllabus for the 2017 – 2018 school year.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Student signature printed name

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent/Guardian signature printed name

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (best contact number)

Parent/Guardian phone number

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent/Guardian email address

I (parent/guardian of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ has signed up for Ms. Combs Remind class by texting @hhsstats18 to 81010

(by signing and returning this syllabus AND signing up for Remind, you have given your student their first 100)

AP Stats Syllabus and Class Rules Quiz name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What is Mrs. Combs email address? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. What is the maximum score I can get by turning in work ONE day late? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. How many projects are scheduled for this class this semester? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. Mrs. Combs might take up my phone, but she returns it at the end of the class if I ask. True or False

5. I can turn in work in pen or pencil. True or False

6. My parent and I HAVE to join Mrs Combs Remind class by texting \_\_\_\_\_\_\_\_\_\_\_\_\_ to \_\_\_\_\_\_\_\_\_\_\_\_\_\_

7. What is the maximum grade I can achieve if I am caught cheating (giving or taking answers) \_\_\_\_\_\_\_\_\_\_\_

8. I am expected to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the Textbook.

9. What types of calculators are acceptable for this class? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

10. If I do not have my own calculator, then I MUST rent one from Mrs Combs for $\_\_\_\_\_\_\_\_\_\_ for the year.

11. I need to keep my notes in my own binder with how many dividers? \_\_\_\_\_\_\_\_\_\_\_\_\_

12. There is a lobster in this room True or False

13. What is the most unusual thing in this room? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

14. Mrs. Combs graduated from \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ University with a degree in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

15. I am aware of the debilitating effects of Senoritis and will make every attempt to prevent it and conceal it while in Mrs. Combs’ classroom. True or False

16. I think I have what it takes to pass this class and score a 3 or more on the AP Statistics test in May.

 Yes – I have it and commit to working hard No - I’m getting out of here asap.

17. Mrs. Combs will \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ if I come into the room after the tardy bell.

18. I can use a Free 100 by signing up for Dropbox using Mrs Combs’ link \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

19. Where do you turn in work in this class? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

20. Ms. Combs will provide or NOT provide me with new batteries for my rented calculator.

21. I understand that I am NEVER to bring a drink other than water into this classroom so that I do not create a sticky mess that will most likely never be cleaned up until next summer. Yes (circle your answer)