

# AP Statistics 2018-2019

## Course Syllabus

### Mrs. Sheila Reilly

#### Overview

AP Statistics is designed to cover one semester of college Statistics over the course of 8.5 months. The purpose of this course is to introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. The four major topic groupings covered in the course outline are listed below. Released questions from previous AP tests are used to enhance understanding of the various topics. Various activities and projects are assigned throughout the course to reinforce the concepts being taught.

#### Materials:

- Textbook. The textbook is *The Practice of Statistics* 3<sup>rd</sup> edition, by Starnes, Yates and Moore.
- TI- graphing calculator.
- 3-ring binder with dividers for class notes and other materials.

#### Assessments:

- **Tests, quizzes and projects/problem sets will comprise approximately 80% of your marking period grade.**
- All tests and quizzes must be done in **pencil**. Points will be deducted for using pen.
- If you miss a test with an *excused* absence, you must make it up within one week. A zero will result if it is not made up within 3 school days. Plan accordingly.
- Corrections may be done if you score lower than a 70% and ***have been doing all work***. This is only for End of unit assessments. Corrections need to be done during lunch activity and within 5 school days after it has been returned to you

#### Homework:

- **Homework and Notes quizzes will comprise 20% of your marking period grade.** Homework will be graded for effort and completion, not accuracy. It will likely be checked periodically. At the end of a unit notebooks will be collected and checked- HW will also be checked here. Homework is assigned daily, as it is essential for reinforcing the concepts learned in class. Notes quizzes fall in this category- since notes are homework.
- **All homework assignments should be labeled** with name, period, date, and **assignment number** on the upper right hand corner.

#### Absences and Late work:

- If a student is absent for any reason, **it will be his/her own responsibility** to obtain the notes and assignments from a fellow classmate or the class website.
- If you miss only a “review day”, you are expected to take the assessment when you return with the rest of the class. If you miss the day of the assessment, please make plans **for make up within 3 school days**. Extended absences are extenuating and together we can form a plan for make up work

**The AP Exam:**

- The AP Statistics exam will be given **May 16, 2019**
- Your goal should be to score a 3 or higher. *You have to put the effort in for the desired results this will not happen magically.*
- We will spend some time in early May doing practice AP problems and a timed Practice AP test

The course emphasizes these four areas:

1. **Data Analysis**

Exploratory analysis of data makes use of graphical and numerical techniques to study patterns and departures from patterns.

2. **Data Production**

Data must be collected according to a well-developed plan if valid information on a conjecture is to be obtained.

3. **Probability**

Probability is the tool used for anticipating what the distribution of data should look like under a given model.

4. **Statistical Inference**

Statistical Inference is the process of generalizing the results of a sample to a larger population (or generalizing w/o cause and effect in case of experiments). It requires all of the combined topics they have learned.

**Why should you take AP Statistics?**

It is a fresh start: This isn't a typical math class. You don't need to remember how to factor a polynomial, graph a sine curve, or prove that triangles are congruent. However, this doesn't mean the class will be easy! ***You will need good critical thinking and communication*** skills.

It is a great preparation for college. It is taught over a full year (instead of a semester in college) so you have "more time" to learn the material and the skills you learn will help you in a wide variety of fields. Students will tell you that AP Statistics has already helped them in their psychology and science classes.

You will NEVER ask: "When will we ever use this?" Problems are almost always based on real-world studies in a variety of fields. We will read articles from current newspapers and magazines and learn how to think critically about claims made in the media.

You will learn how to be critical of things you hear or read about on TV or social media or news. You should always be asking questions about validity and background and not take things on the surface like much of society currently does. Being a critical thinker is a LIFE skill no matter what your career path is.

**Goals** Set a Goal for yourself and the AP test and write down how you plan on achieving that goal.

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I, \_\_\_\_\_, have read this document and understand the  
(print student name)  
**rigor and demand that AP Statistics will place on me as a student. I am making a  
commitment to this class and all that is required to be successful on the AP Statistics Exam.**

\_\_\_\_\_  
(student signature and date)

I, \_\_\_\_\_, as the parent or guardian of an AP  
(print parent/guardian name)  
**Statistics student, have read this document and understand the rigor and demands that will  
be placed on my child taking this class. I am making a commitment to support my child  
and the teacher to the best of my abilities in order to ensure success on the AP Statistics  
Exam.**

\_\_\_\_\_  
(parent signature and date)

I, Sheila Reilly, will do my very best to TEACH each willing student the skills and  
mathematics necessary to be successful in this course and on the AP Statistics Exam.

*Sheila Reilly*

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