



## AP Statistics Course Outline and Expectations

THE RENERT SCHOOL AT ROYAL VISTA

**Lead instructor:** Merrick Fanning

**Email:** [merrick.fanning@renertschool.ca](mailto:merrick.fanning@renertschool.ca)

### A. The main goal of mathematics education is to help students:

- Build strong analytical skills
- Demonstrate flexibility and creativity of thought
- Solve problems analytically by using mathematical processes
- Communicate and reason mathematically
- Appreciate and enjoy the beauty and value mathematics
- Develop the ability to prove, reason, and advocate a position logically and intelligently

**B. General Outcome of this course** is to continue to expand the skills developed in previous courses. Credits obtained count towards high school graduation. Towards the end of the school year, we will prepare for the College Board AP Statistics Exam. Topics are introduced in a way that fosters complete understanding of underlying concepts, as well as mastery of all related proofs and definitions. This course is meant as an introduction to statistics at the university level. We will also be exploring extensions and enrichment beyond the standard AP curriculum.

### C. Required Materials

- Brain
- 3-ring binder with graph paper
- Pens, pencils, highlighters, coloured markers, erasers
- TI-84 Graphing Calculator
- All study materials (books, handouts etc.) will be provided to the students in class

### D. Digital Communication

- There is an online community for this class on [www.schoology.com](http://www.schoology.com). Students will be able to access important information like deadlines, assignments, and handouts from this webpage. The Class Access Code is: 7SSX-M3K4-VVZ7W. Please join the group; this is another way of communicating with you, and vice versa.
- I also have a course website which will contain important information in an easy-to-navigate format: <https://merrickmath.github.io/APSTAT/>

## **Student Expectations**

As our students move into senior high mathematics, the material gets deeper and more involving. To get stronger, and to be well positioned for the college and university level, I expect you to:

- Treat yourself, your teachers, and the subject matter with the same respect you deserve and would like to be treated with.
- Get organized!!! Mathematics is a highly structured language that is written in a very particular way. Understanding how to think mathematically is half the battle; the other half is presenting your solution in a way that makes perfect sense to another fellow human.
- Adopt a good attitude and an open mind towards the subject matter. Mathematics is the crowning jewel of human thought. It is intriguing, beautiful, fun, and exciting. It has enriched countless lives and can do the same for you. Attend class not only in body but also in spirit.
- Come to class prepared. Read/watch all the assigned materials. Attempt to solve all assigned problems. Homework at the Renert School is not optional. Math is not a spectator sport: you learn it by practising, solving problems and participating. It is an expectation that you complete your homework.
- Have perseverance. The only way to improve in mathematics is by doing mathematics. Failing is part of the experience; do not despair if you do not get all the right answers right away (nobody does). The best learning is by trial and error. Use the marking keys but do not abuse them; there is a fine line between the two.
- Participate in class and ask questions: if you do not know something, quite a few of your friends around you struggle with it as well.
- Help one another and get help when needed. By helping your peers, or getting them to assist you, everyone's learning is being greatly enhanced.
- Attend all classes. Regular attendance is crucial to be successful in this course. You are expected to come to all classes on time and be ready to work. It is your sole responsibility to make up for missed classes by getting notes from a friend who attended and going to the Tutoring Centre if you need help to catch up. Saying "I did not know what the homework was because I missed class" is not acceptable at our school.
- Take good class notes so that you always have a reference. Your binder showcases your learning. Keeping your notes organized in your binder will also help to improve your learning.

Also:

- You may bring a water bottle with a lid to class if you need to drink a lot.
- Cheating is not tolerated under any circumstances! Integrity is valued and expected of all Renert Students. Copying answers wholesale from marking keys or friends, presenting someone else's work as yours, being untruthful about not having done homework or cheating on exams are all considered severe academic misconducts that may lead to a failing grade in the entire course.

I have read, understood and intent to do my utmost to meet all above expectations:

Student name: \_\_\_\_\_ Date: \_\_\_\_\_

Student signature: \_\_\_\_\_

Parent signature: \_\_\_\_\_

*(Parent should be familiar with this list of expectations, and make sure student understands them)*