

# AP & REGULAR STATISTICS

**MS. RAZOR**

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## **COURSE DESCRIPTION**

In AP & Regular Statistics students will learn about major concepts and tools used for collecting, analyzing, and drawing conclusions from data. The four broad conceptual themes of the class are: exploring data, sampling, and experimentation, anticipating patterns, and statistical inference.

Text(s) & Required Materials: Stats; Modeling the World – AP Edition, 2015. We will be using our textbook on a regular basis and it should be brought to class each day. We will also be using graphing calculators on a regular basis (TI 84+ or Inspire). If you do not have a graphing calculator and are unable to buy one, please check one out from the library. We will also use computers or chromebooks on a regular basis and students must come to class with their device.

## **CLASS DONATIONS**

At this time, I am also taking class donations to have supplies to last the entire year. It would be great if each student brought in 1 or 2 of the items listed below.

- Kleenex
- Pencils (preferably Ticonderoga)
- Expo Markers (students will use them a lot this year during different activities)
- Glue Sticks

## **COURSE SYLLABUS**

Students are notified of which assignments are due and when upcoming assessments, projects, etc., are due in our Canvas Statistics course. My website, [www.msrazormath.com](http://www.msrazormath.com) will contain helpful videos and other resources that can be used throughout the year.

### **Goals/Objectives:**

- 1st Semester: The emphasis for the first semester will be an introduction to statistics including the exploration and understanding of data, relationships between variables, gathering data through surveys, experiments, and observational studies. These topics are covered in the first four major sections of the text.
- 2nd Semester: The second semester will focus on probability and inferences. AP students will begin reviewing for their AP exam in April. There may be an opportunity for study sessions before the AP Exam is given. If this occurs, then students that attend study sessions can “swap time” for classes after the AP Exam. If study sessions do not occur, then after the AP Exam, students will work on a final project.

# GRADES

Grades will be weighted with four different categories: tests, quizzes, homework, and projects.

## AP Statistics

Tests – 70%  
Quizzes – 10%  
Homework – 10%  
Projects – 10%

## Regular Statistics

Tests – 50%  
Quizzes – 25%  
Homework – 15%  
Projects – 10%

- Tests: There will be 1 to 2 tests per quarter. Tests will be announced in advance and students will have time to prepare for them. Students will be allowed to make corrections on each test that they have attempted (you must get at least some points before corrections). Corrections will allow students to collect half of the points they missed (up to 90%). Corrections must be done in my classroom and be completed before the next test is given.
- Quizzes: Quizzes will be given periodically, with and without notice. Quizzes may be vocabulary, reading quizzes, or online quizzes. Corrections must be done in my classroom and be completed before the Unit Test is given.

**Regular Statistics Note:** Students taking the non-AP Statistics, will be allowed to use their notes during Tests and the majority of Quizzes. Students may only use their notebook (no textbook or friend's notebook).

- Homework: Homework will be given on a regular basis. It will not always be collected, but when it is collected it will account for 10% of your grade. Students will have an opportunity to ask questions about their homework at the beginning of the class. Students will be required to read the textbook each week. The textbook assignments are due before class begins. Assignments turned in after class will be given partial credit.
- Projects/Reports: There will be projects/reports assigned throughout the year. When one is assigned, a rubric will be provided for the expectations. Students will be provided some time to work on projects in class and also may be required to work on them outside of class. Projects may also count as test grades.
- Extra Credit: Extra credit will be provided throughout the year. It is important for students to complete the extra credit when it is given because extra credit will NOT be given at the end of the semester. Extra credit opportunities may also be provided occasionally during tutoring sessions.

# LATE/MAKE-UP WORK POLICY AND PROCEDURES

Late homework will be accepted for half credit. Assignments from a unit will not be accepted after that unit test. When students are absent, it will be important for them to communicate with Ms. Razor to make arrangements for homework. Projects, reports, and other big assignments due dates are firm. Being absent does NOT excuse you for turning in these types of assignments late. Some accommodations can be made on a case by case basis. It will be imperative that you communicate in advance with Ms. Razor

# TUTORING

During the year, the tutoring times may change due to other circumstances. Students and parents will be aware of the tutoring time change through the weekly tutoring schedule in the room and announcements made in class. If the times below do not work for your schedule, we can make arrangements for a time that works for both of us. In addition to the times below, I will be available during many lunches. Below is a list of tutoring times:

- Mondays: 8:30 – 9:10 and 3:45 – 4:45
- Tuesdays: 8:30 – 9:10
- Wednesdays: Enrichment and 3:45 – 4:45
- Thursdays: Enrichment and 3:45 – 4:45

Weekly tutoring schedule will be posted on the classroom door. Students should understand that if there is a sub, there will NOT be tutoring that day. In the spring, tutoring times could be reduced because I will be coaching softball.

## **ELECTRONIC DEVICES**

Students will use chromebooks or computers on a regular basis in class. It is important to make sure the device is fully charged and/or you have a charging chord. Cell phones should be put away and not used during class. There will be occasions that Ms. Razor will allow you to use your cell phone, but only after you have asked or permission has been given to the class.

If cell phone usage becomes a problem, it will be collected and put in one of the cell phone jails at the front of the classroom. The phone may be retrieved at the end of class.

Earbuds, airpods, and headphones are NOT permitted unless Ms. Razor specifically states it. When permission is given to listen to music, you may NOT watch videos or movies.

No taking pictures or videos of others in class without their consent.

Additional Guidelines and Rules can be added by Ms. Razor when needed.

## **FINDING SUCCESS IN STATISTICS**

There are four recommendations I have to help students be successful in AP & Regular Statistics. The list below is not a mandate, but it is highly recommended that students use these proven strategies.

Notes & Interactive Notebook: First, I recommend that each student take and keep notes. I have tried different strategies with teaching Statistics and have found that students are more successful when the class and notes are organized with an Interactive Notebook. The more organized you are able to keep your notebook and notes, the more you will appreciate them during the year and possibly future years (yes, I have had students use their Stats notebooks in college). Your notebook will fill up from notes and activities throughout the year. It is recommended to NOT do homework in this notebook.

Graphing Calculator: We will use a graphing calculator during 70% of the lessons. A class set of TI-84+ will be available, but you will also need one for many homework assignments. If you do not have a graphing calculator and do not want to buy one at this time, there will be some available from the library to check out.

Vocabulary & Procedures: Knowing your statistical vocabulary and procedures will be KEY for being successful. There are many terms that have similar definitions and it can become confusing if you do not begin learning the vocabulary from the beginning. To assist in learning vocabulary, I recommend that students use the free Quizlet App, that will allow them to practice the vocabulary online or on their cell phone.

Complete Homework on Time: This class is taught as a modified flipped classroom. Doing homework late will many times leave you confused and not able to fully get the most of class. There will be times that you will not understand the assignments completely, but that will still leave you in a better place than if you don't attempt it. Reading assignments will be due BEFORE class begins. The goal of the reading assignments is for me to use results and misunderstandings to help guide the lesson for the day.

## **AVAILABLE RESOURCES**

If you struggle at any point with the material, the first step is to ask Ms. Razor for help. There are not many students or adults in the building that will be able to help you with this material. I am always willing to work with students that ask for help and are willing to spend time to understand the material.

Canvas and my website have numerous videos and links to help understand the material. The majority of notes we take in class have videos that accompany them. It might be helpful to watch the video after taking notes in class. While in class you maybe busy writing things down but not really listening to what is being said. Going back and watching the videos may help you understand more clearly.