

Course Description

AP Statistics is a college-level course which differs from a high school statistics course in terms of depth of coverage and time commitments for study. I cover all topics as they appear in the AP Statistics Course Description. The content is organized to emphasize major topics which include the following: 1) Exploring Data: Describing patterns and departures from patterns; 2) Sampling and Experimentation: Planning and conducting a study; 3) Anticipating Patterns: Exploring random phenomena using probability and simulation; and 4) Statistical Inference: Estimating population parameters and testing hypotheses.

The course is aligned to the AP Statistics exam, which is an application and concept based exam given in early May (this year the test is on Thursday May 17, 2018 at Noon). **You are expected to take the exam if you are in this class!!!!**

Course Outline

**These are the chapters in the book I used to design the class. As we go through each chapter I will let you know what chapters they correspond to in your textbook.

Chapter 1 – Exploring Data

Chapter 2 – Modeling Distributions of Data

Chapter 3 – Describing Relationships

Chapter 4 – Designing Studies

Chapter 5 – Probability: What are the Chances?

Chapter 6 – Random Variables

Chapter 7 – Sampling Distributions

Chapter 8 – Estimating with Confidence

Chapter 9 – Testing a Claim

Chapter 10 – Comparing Two Populations or Groups

Chapter 11 – Inference for Distributions of Categorical Data

Chapter 12 – More about Regression

Review for AP Exam

Final Project

Course Materials

Textbook: Pearson's STATS: Data and Models 3rd Edition (you are expected to cover it)

Notebook: You will need a 3-ring binder 1.5-2.0 inches and dividers (notes/handouts, homework, tests/quizzes, and review)

Other materials: Pencils, pens, and loose-leaf paper.

Calculator: It is required that you have a graphing calculator for this class. A TI-84 is the preferred calculator.

Course Expectations, Policies, Procedures

In this class you are expected to:

- Be on time (in your seat when the bell rings, not running through the door).
- Be prepared with materials (please see above for what you need) and take good notes.
- Do your homework every day and bring it to class the day after it is assigned. Practice is crucial to being successful at this level of math. You will have **roughly** 30 minutes of homework each night. Since this is an AP class you should form study groups with your classmates and work with them in and out of class, as well as work by yourself.

- There is an AP Stats Facebook page (Mrs. DeRue's AP Stats Class). **It is strongly recommended that you join this group** so that you may ask questions outside of class, answer questions for your classmates, or just discuss things. I will monitor this page nightly until 9:15 (yes even on the weekends if I am home).
- Be in class on a daily basis. When you are absent from school it is your responsibility to find out what you missed while you were absent and to turn in any work owed. You will have 1 day for each day that you were absent to make up the work you missed. **Good attendance is a must to be successful in this class.**
- If you are absent due to a field trip or music lesson, then you must turn in the work that is due that day and pick up anything by the end of the day. If you fail to do so, you will earn a 0. You **cannot** miss a test or quiz for a music lesson. You will have to make up the lesson.
- Respect yourself, others, and property. We are all working together toward the same goal (which is to get a 3 or better on the AP Statistics exam) so acts that put down, embarrass, or disrupt others from learning will not be tolerated.
- Abide by the code of conduct and follow the rules in the student handbook.

Grading Policy

40% Tests/Projects

- Will be given every 5 weeks and will assess the material covered in that time period. To maximize class time, you will be given a review sheet on the Monday before a test and you will be expected to work on it outside of class and ask questions on your own time to prepare for the test. We will not spend much class time reviewing.
- Statistics is a hands on type of class, so we will do projects that will require you to use what you have learned.

40% Quizzes

- Will be given randomly (with advanced warning) to assess certain topics. Review for quizzes will work the same as with a test.

10% Homework

- Homework practice is assigned almost daily and is either collected or checked on the day that it is due. Often homework is graded on effort.

10% Free Response Questions (FRQs)

- Will be assigned weekly on Monday and will be due on or before Friday (or whatever the last day of the week is)

**** Please check school tool regularly so that you know where you stand in class. Many of you will be going to college next year and you will be responsible for keeping track of you. Your professors will not remind you about things and will not let you make up work. So if you learn to be responsible now, next year it will be a piece of cake.**

We will be writing goals for this class and we will revisit and revise them often. Please think about what you want to achieve in this class. Don't strive for mediocrity, I know some of you just want to pass, but just doing enough to get by is not going to get you very far when you are out in the world trying to get a job or trying to keep a job. Strive for excellence because then if you don't succeed at least you tried to be better than just average.

To the student:

I have read and understand the course expectations for AP Statistics.

I agree to abide by these expectations.

Signature of Student

date

To the Parent(s) or Guardian(s):

I have asked your student to share these expectations with you. If you have questions or concerns during the school year, please feel free to contact me at 593-5400 ext. 109 or at aderue@fulton.cnyric.org Email is a very efficient way to communicate and therefore, I would appreciate it if you would please send me an email to the address above that states your son/daughter's name and your name so that I can be assured that I have the correct email address for you. If we work together, I believe we can help your student have a positive learning experience this school year.

Sincerely,
Anne DeRue

Signature of Parent or Guardian

date