AP Statistics Syllabus

Teacher: Mr. Burt Room: 1321

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Welcome to AP Statistics! I am looking forward to a great year with you. Keep this syllabus so you can easily look up any information about this course.

**1. Course Description**

AP Statistics will introduce you to the major concepts and tools collecting, analyzing, and drawing conclusions from data. You will be exposed to the following broad conceptual themes: exploring data, sampling and experimentation, anticipating patterns, and statistical inference.

Semester 1:

Chapter 1: Exploring Data

Chapter 2: Modeling Distributions of Data

Chapter 3: Describing Relationships

Chapter 4: Designing Studies

Chapter 5: Probability

Chapter 6: Random Variables

Semester 2:

Chapter 7: Sampling Distributions

Chapter 8: Estimating with Confidence

Chapter 9: Testing a Claim

Chapter 10: Comparing 2 Populations/Groups

Chapter 11: Inference for Distributions of Categorical Data

Chapter 12: Linear Regression

**AP STATISTICS TEST DATE: Friday, May 15th 2020**

**2. Course Objectives**

In addition to understanding the above concepts, we will also have other fundamental goals to accomplish this year.

* You will be able to communicate mathematical ideas orally and in writing
* You will be an improved problem solver
* You will be able to relate mathematical ideas to the real world
* You will be able to set up, conduct, and interpret results from simulation
* You will use technology to investigate data
* You will have fun and learn to appreciate math!

**3. Required Materials**

You **MUST** bring the following daily:

* Textbook\* (supplied): *The Practice of Statistics, 5th ed., W.H. Freeman, 2014.*
* Paper (lined and graph) and pencil
* Graphing calculator (preferably the TI-84)
* Chromebook
* Formula sheets and tables (supplied)

**4. Grading Procedures**

a) Tests/Projects- 90%

b) Homework – 10%

*Tests-* Tests are your way to show me what you have learned. There will be about 3 tests per quarter as well as projects throughout the year. Tests will be written much like the AP test you will be taking in May and will be scored using the same general rubric. That will help you determine if you should continue doing what you have been doing or change what you have been doing to be successful. The projects will focus on integrating course curriculum from what you have learned previously and apply it to current material. All test dates are on the syllabus and on my website, but are subject to change. Tests may be retaken at my discretion.

*Homework-* Homework assignments are posted on my website with approximate due dates. A more detailed date of homework due will be given in class, posted on the bulletin board, and posted on my website under announcements. I will collect a weekly assignment only on the assigned date, so it is up to you to keep up on your homework during the week. **It is strongly recommended to spend 20 minutes every night on homework!!** Each homework assignment is worth 5 points and will be corrected (random problems) by me. Feel free to see me for any help on problems during the week once we have covered the topic in class. In class activities will also be counted towards your homework grade and are worth 5 points as well.

*Absences-*  Homework assignments are due on the due date!! If you are absent the day before a homework assignment or test, you are still responsible for taking turning in the homework or taking the test the next day since I give you plenty of notice. Extended excused absences will be taken into consideration. You must come to me for any make up work missed; I will not search for you!

*Grades-* The grading scale can be found in your student planner. Grades are updated ASAP on infinite campus. I recommend you keep track of your own grade to get help as soon as you need it. Remember, you need a score of 3 or higher to earn AP credit for college on the AP Test.

**5. Classroom Guidelines**

* Talking out of turn will NOT be tolerated!
* I will treat you with respect. I expect the same treatment from you and for you to treat your classmates with respect.
* Come to class on time and prepared.
* Come to class with a positive attitude and ready to learn!
* An ‘A’ is not your right, it is something you earn.
* The bell does not dismiss you, I do. Do not pack or line up at the door until I say.
* Do not disrupt the learning of others.
* Do not play calculator games or use other electronic devices in my classroom.

**6. Other Notes of Interest**

AP Statistics is a difficult course which will test not just your mathematical ability, but also your ability to reason through real life situations. I highly recommend working with other students in this class or even forming a regular study group. You will be working with many of your classmates on a variety of projects so get to know them. I also want to stress the importance of asking me for help after you have exhausted you and your classmates’ resources so as not to get behind and for gaining understanding. Also, be willing to struggle with the material and not get frustrated. These problems are not as straight forward as previous math topics. I know with hard work and dedication, you will be successful in this class.

**7. My Schedule**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Semester 1** | | |  | **Semester 2** | | |
| Period 1 | Room 1321 | AP Statistics | Period 1 | Room 1321 | AP Statistics |
| Period 2 | Room 1321 | AP Statistics | Period 2 | Room 1321 | AP Statistics |
| Period 3 | Room 1321 | AP Statistics | Period 3 | Room 1321 | AP Statistics |
| Period 4 | Room 1321 | Prep | Period 4 | Room 1321 | Prep |
| Period 5 | Room 1321 | Pre-Calculus | Period 5 | TBD | Supervision |
| Period 6 | Room 1321 | Pre-Calculus | Period 6 | Room 1321 | Pre-Calculus |
| Period 7 | Room 1321 | Prep | Period 7 | Room 1321 | Pre-Calculus |
| Period 8 | TBD | Supervision | Period 8 | Room 1321 | Prep |

**PLEASE FEEL FREE TO COME IN DURING ANY OF MY PREP HOURS, OR SEE ME TO MAKE AN APPOINTMENT FOR ANY HELP OR CONCERNS YOU HAVE AT ANY OTHER TIME!!!!!!**

**I LOOK FORWARD TO GETTING TO KNOW ALL OF YOU AND WORKING WITH YOU ALL THIS YEAR. LET’S MAKE IT A GREAT YEAR!!**

**AASD Grading Practices...**

[**Academic Integrity**](https://docs.google.com/document/d/1IDfP8BZBtGkpKjj1o85sajZsNh-OuacnPC861HpjdVE/edit?usp=sharing)

The Appleton Area School District promotes and expects ethical behavior from all students, valuing honesty and integrity. Dishonest and unethical behavior, such as lying, cheating, or plagiarism, will not be tolerated. All incidents will be documented through an Office Discipline Referral per district procedures, and may impact the Career and Life Skills frequency rating (all middle level courses and high school pilot courses).  Students will have the opportunity to demonstrate mastery of the standards through an alternative assessment as determined by the teacher.

[**Attendance**](https://docs.google.com/document/d/1tbIJc-otyzoVY70LQs0XXUF6LufK6JKfD290Vli15UM/edit?usp=sharing)

Regular attendance is a vital part of academic achievement, and demonstration of content mastery may be impacted by the lack of instructional opportunities as a result of absences.  Student attendance will not be used in the calculation of academic scores. However, absences may affect the teacher’s ability to assess the required skills, which may be reflected in the student’s academic score, and absences may lead to students having to make up missing activities.  Upon returning from an absence students are expected to make arrangements to learn content that was missed.

[**Extra Credit or Bonus Points**](https://docs.google.com/document/d/1aUbPgzPJ-I7Apc0UE7eZ80rj7709tXpLlFPXTPPbdh8/edit?usp=sharing)

Students may have the opportunity to provide additional evidence that demonstrates new or deeper understanding of the established academic standards.  However, such opportunities may not be used to improve a grade in the absence of having met the established academic standard.

[**Grading on a Curve**](https://docs.google.com/document/d/15agg_E-F4EY4Hy_dlIUqks1v5Q_SLcJBpKR6mFYHujM/edit?usp=sharing)  Individual student achievement will be measured against defined curriculum outcomes rather than compared to other students’ academic achievement.

[**Group Work**](https://docs.google.com/document/d/1TaKMqzO1-hTxsSDcHOwUuVSYSjFx3s8436F0qN4LKK8/edit?usp=sharing) Only individual achievement evidence will be used in a student’s grade; group scores will not be included.

**Late Work**Formative late work which impacts the calculated report card grade must be turned in no later than two weeks prior to the end of the semester, but formative work will be due prior to be eligible for Summative reassessment. This means that a student must complete the previous chapter homework by the next summative assessment to be eligible for chapter reassessment.

**Reassessment** Students will be given opportunities to demonstrate their learning.  Summative work for reassessment must be available to students until the last day of the semester. Reassessment will be offered to students after additional evidence of learning has been provided as needed.

**Career and Life Skills Rubric:** Will be assessed at every midquarter and semester.

**AASD High School Career and Life Skills         2018**

Student Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_                Course: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Teacher Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_                Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
𝥁 Teacher Assessed        𝥁 Self Assessed        𝥁 Peer Assessed

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| --- | --- | --- | --- |
|  | **Consistently** | **Sometimes** | **Rarely** |
| **Standard #1 - Acts Responsibly & Respectfully**   * Manages time and project deadlines effectively to complete tasks on time * Makes  ethical choices in both personal and school-wide expectations * Participates actively and shows reliability, accountability, and punctuality   **In a math class:**   * Utilizes class time appropriately * Returns from an absence and makes up what was missed * Completes homework on time (or in a timely manner) * Displays academic integrity * Prepared for class when the bell rings  (calculator, writing utensil, notes, homework, charged chromebook, etc.) * Uses technology appropriately in class (does not distract the student or others  from the learning experience) * Contributes positively to the classroom environment |  |  |  |
| **Standard #2 - Communicates Effectively & Works**  **Collaboratively**   * Communicates  appropriately across various settings to engage diverse audiences * Works collaboratively with others to complete tasks, solve problems, resolve conflicts, provide information, and offer support * Is open to ideas and opinions of others * Responds openly and effectively to different ideas, groups, and opinions of others   **In a math class:**   * Participates regularly in class/small group discussion * Communicates understanding of mathematical processes * Justifies mathematical reasoning * Listens to peers (and respectfully comments on their thoughts) during group work * Asks and answers questions of peers * Is productive and appropriate when working with others |  |  |  |
| **Standard #3 - Thinks Critically & Creatively**   * Applies informed decision making and reasoning that leads to ideas, innovation and personal growth * Seeks  and evaluates  feedback in order to make necessary adjustments   **In a math class:**   * Reflects on work (uses mistakes as a learning opportunity) * Puts effort towards developing problem solving skills and strategies * Demonstrates flexibility in reasoning (analyzes multiple solution paths) * Proactive about seeking assistance outside of class time (I/E, lunch, before/after school) |  |  |  |

**Classroom to Career Connection**

* *Support our Academic and Career Planning process for students:*[*Found Here*](https://drive.google.com/file/d/1teZRRkVElMqCc9rl2Yspwo0YlPkP9hL3/view?usp=sharing)
* *Help students connect the learning in class to career opportunities (transferable skills)*
* *Provide opportunities to real-world exposures connected to AP Statistics*