|  |  |  |  |
| --- | --- | --- | --- |
|  | |  |  |
|  | |  | Freedom High School 2019-2020 school year |
| Statistics  Course Syllabus | |  | Instructor: Ms. Kolomenskaya  E-Mail: [kolomenskayao@luhsd.net](mailto:kolomenskayao@luhsd.net)  Website: <http://www.luhsd.net/freedom>  Phone: (925)625-5900 Ext. 3594  Classroom: P-19 |
|  | |  |  |
| Prerequisites: Students need to have completed at least Algebra II, preferably with a grade of C or better. While students with lower grades have taken the course, they generally have not been as successful as those with a stronger foundation. Students must be willing to think critically, study on their own time, and be able to seek help as needed. Course Description This is a rigorous math class with emphasis on writing. Students learn to use the TI- 83/84 graphing calculator to develop an understanding of simulation and statistical testing. Students are expected to spend approximately 45 minutes per day practicing at home. Projects and labs are assigned regularly to supplement knowledge and apply it. Major tests are given at the conclusion of each unit of work and contain a mixture of multiple choice and short answer questions. Students are always notified in advance of assignments. Required Materials  1. 1-inch Binder/Graph paper 2. Pencils with eraser, two different color pens and highlighters 3. TI-84(or similar) graphing calculator\* 4. Stats: modeling the world / D. Block, P.Velleman, R. DeVeaux, 2015 (textbook) \*   \*available in the book room  If any of the above supplies represents a financial burden, please talk to me before or after school and we will work something out. Grading Scale: **3.30 – 4.00 - A**  **2.50 – 3.29 - B**  **1.50 – 2.49 - C**  **1.00 – 1.49 - D**  **0.00 – 0.99 - F** Semester Grade Weights**Tests and Quizzes - 80%** **Projects - 10% Semester Final - 10%**  Grades will be available and updated periodically through our AERIES program (parent portal) at Freedom’s website. If it is your first time contact your building secretary for the 10-digit code. |  | Credit 10 math or elective units Classroom Rules Students must agree to comply with it and all of Freedom High School’s rules and expectations.  \*Should a student behave in such a way that the learning environment is severely disrupted; the student will be removed from the classroom immediately.  My goal is to create a healthy, safe learning environment for all my students.  Course Goals  The students will be able to:  1. Represent and solve mathematical problems using statistical models and methods.  2. Communicate answers to statistical problems in clear, concise language.  3. Use a variety of graphical representations of data and choose the most appropriate representation for a given data set.  4. Use measures of central tendency and dispersion to describe data.  5. Calculate correlation coefficient for a set of paired data and determine the strength of the relationship.  6. Identify both common misuses of statistics and common errors in collecting and analyzing data.  7. Find the probability of event in a binomial, geometric, and normal distributions.  8. Construct confidence intervals and conduct significance testing, using various tests to compare data.  9. Use appropriate technology to analyze and represent data and to solve statistical problems. |

|  |  |
| --- | --- |
| What I expect:  ♦ You will arrive on time every day with all your materials.  ♦ You will participate in class activities and make a reasonable effort to complete every problem.  ♦ You will seek help when you need it!  ♦ You will follow the behavior rules and guidelines.  ♦ You will be nice to me—I’ll need it! | What You Can Expect:  ♦ I will be here on time every day unless I am genuinely ill.  ♦ I will challenge you to think and use your brains.  ♦ I will help you to survive the course by being available for questions and conversation throughout the day.  ♦ I will be nice to you—you’ll need it too! |

# Standard-Based Grading

In many classrooms, your grade is a reflection of a wide variety of things, including how many assignments you’ve turned in, whether you turned those assignments in on time, how well you did on chapter tests that were given only once, how often you participate in class, etc. In contrast, your grade in this classroom will be based only on whether or not you have mastered the specific learning targets outlined in each unit. In practice, this means you get points for demonstrating what you know. Nothing else**. There is no extra credit.**

If you can demonstrate that you’ve mastered the standards, then you get the points. If you can’t, then we work together to help you learn until you do master the standards. Your grade, then, is a snapshot summary of your total understanding of the standards we’ve discussed in class. But it’s not etched in stone; it can and will change as your understanding changes. Your grade is a reflection of what you have learned and which standards you’ve mastered.

Here are a few of the highlights of this grading system: • All units are broken into essential skills that students must work to master • The grading scale operates on a 4-3-2-1 scale: 4 = Meets Standards 3 = Meets Standards Nearly 2=Approaching Standards 1 = Below Standards 0- Not Assessed• Students will be assessed on each skill separately in order to determine which skills they have mastered, and which skills need improvement. • Students will take “learning checks” throughout each unit. Learning checks are small “quizzes” that help the teacher and student identify the current level of mastery. • Students will complete a self-assessment of each learning check to determine their performance. • After a unit assessment is taken, students can always practice extra at home (or obtain extra practice from teacher) and ask to retake an exam. A student’s final grade is based on the amount of skills mastered, partially mastered, and not mastered (limited) throughout each grading period.

# Homework

Homework is essential for success in mathematics. The best way to learn to use mathematical concepts is to practice them daily. All students are expected to complete all homework before the beginning of the class period in which it is reviewed. If the student is absent, **it is their responsibility to obtain any missed materials, notes, and assignments** from the website, a peer, or the teacher. I encourage parents to see that their child is completing homework assignments so that they reach mastery.

# Retakes

Before you can re-assess, you must prove to me that you have actually spent time engaging with the material. This is to ensure that you’re not just blindly throwing yourself at the standard without making any effort to learn the material. We will then set up a time for you to take a new assessment. It will not have the same questions as the original assessment. Expect to wait at least two days from the time you request a re-assessment to the time I have one prepared for you. Students will only be allowed to retest on one standard per day. No retakes will be accepted the week before the end of the grading period.

# Electronic Devices

Students may carry cell phones and MP3 players at school, but may NOT use them or have them on during instructional time unless being used for instructional purposes as directed/permitted by the teacher. Phones are not to be used to take pictures or video footage. All electronic devices must **be turned off and stored in the student’s backpack/bag**. Use during class time or inappropriate use will result in confiscation of device and disciplinary consequences. *(see Student handbook)*

# Zero Tolerance Policy

When a student is taking an exam, they will be asked to put away their electronic devices inside their bags and or give it to the teacher to hold on until everyone in the class is finished with the assessment. We have a ZERO tolerance policy and students will receive an automatic score of 0 (no retakes) and a referral if evidence of cheating is found, or an electronic device is at their desk or on their person. *(Category 5 of student conduct disciplinary guidelines)*

# Help

# It is completely normal for students to experience challenges while taking math course. Students are encouraged to recognize and address these challenges by using one or more of the following suggestions:

* Students can come in for extra tutoring before or after school at a mutually agreed upon time.
* Students can form study groups to work on assignments.
* Attend HELP Program afterschool M-TH in the B-Bld from 3:15-4:30pm