

## Probability & Statistics Syllabus

**Instructor:** Mr. Nelson

**Classroom:** F109

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**Course Description:** The emphasis in statistics is on understanding statistical methods. The major topics include frequency distributions, measures of central tendency, variation, sampling, correlation, probability, and hypothesis testing.

**Textbook:** Bluman, Allan. *Elementary Statistics: A step by step approach, 6<sup>th</sup> edition, 2007.*

**Calculators:** Every student will need a graphing calculator for use in the class, on homework, and on exams. You can use a TI-84, 89 or the TI-Nspire. I strongly suggest using the TI – 84 as that is the calculator I will be teaching with. If you don't use the TI-84 you will be responsible for learning how to use your calculator. Do NOT ask me questions on how to use your calculator if it is different from the TI – 84. It is crucial you have access to your calculator during all class sessions.

**Materials Needed:** Pencils, erasers, pens, highlighters, graphing calculator, lined paper.

**Grading Scale:** Grades are based upon classwork/homework, projects, and quizzes/tests. Quizzes and tests will have a 70% weight on the grade. Homework and classwork will have a 10% weight on the grade. Projects will have a 20% weight on the grade. The grading scale is below:

- A Greater than or equal to 90 %
- B Greater than or equal to 80 % and less than 90%
- C Greater than or equal to 70 % and less than 80%
- D Greater than or equal to 60 % and less than 70%
- F Less than 60 %

Everyone will start the school year with a *Satisfactory* citizenship and work habit grade. You must truly show outstanding work, attitude, and behavior for me to give a mark of *Outstanding*. Students that have 4-5 tardies will automatically receive a citizenship grade of *Needs Improvement*. Students that have more than 5 tardies will automatically receive a citizenship grade of *Unsatisfactory*. Students that have 4-5 missing assignments will automatically receive a work habit grade of *Needs Improvement*.

Students that have more than 5 missing assignments will automatically receive a work habit grade of *Unsatisfactory*.

**Notebook:** Every student is responsible for taking their own notes. Notes will be taken daily. If you are absent, it is your responsibility to get the notes from someone or to copy from Google Classroom as they will be posted there. You will also be given a formula sheet. Notes and the formula sheet should be accessible during every class session.

**Homework:** Homework is assigned on a nightly basis and is due the following class period, unless specified differently. Homework is graded on an effort basis. Full credit is earned by showing the process of solving the problems. Homework papers with only answers will not earn any credit. Remember NO WORK=NO CREDIT. All homework must be done on separate paper; notebook pages will not be accepted. Homework must be done in **pencil**. No credit will be given if assignments are done in pen. Homework will be turned in through Google Classroom. In addition, homework assignments should include your FIRST AND LAST NAME, ASSIGNMENT, ASSIGNMENT NUMBER, and PERIOD. Homework missing any of this information will not be graded. Time will be given at the beginning of class to clarify any questions.

Doing homework is a critical part of your grade. Although it is only worth 10% of your grade, it is important to complete if you want to do well on tests, which have a 70% weight on your grade. Late homework will be accepted until the day of the unit test. Once the test arrives, you cannot turn in any late work for that unit. Late homework will only receive a maximum of 50% credit of what would have been received had it been on time.

**Projects:** Approximately 1-2 projects will be given each semester. All projects will be hands-on. Projects include designing surveys and experiments, collecting data, analyzing data, and interpreting the results. Students must write a formal report of their findings and must use statistical language throughout their report. Students need to include graphs in their project, which must be done with computer software. Students will present their projects during the class session in front of the class. Completing projects on time is important as all projects will have a 20% weight on the grade. Directions and a rubric for the project will be handed out when it comes closer to the project due date.

**Assessment:**

Quizzes will be given regularly and will encompass the topics covered during the week. A test will be given at the end of each unit. These will be completed in person and the details will be communicated during class. Each test is cumulative and worth 100 points. If a student is **excused absent** on the day of an assessment, a make-up assessment will be taken, to be determined with communication to Mr. Nelson. It is the student's

responsibility to contact Mr. Nelson. If a student fails to take a make-up assessment **or is absent and not excused**, a score of zero will be recorded for that assessment.

**Attendance:** Students need to be in the classroom on time. Students who are late will be marked tardy. It is your responsibility to make up work when you are absent. If you have an unexcused absence, you will not be allowed to make up what was missed in class that day.

**Participation:** Active participation is a class requirement. Students are expected to answer questions throughout class and participate in what is happening.

**ACADEMIC HONESTY:** Academic cheating will result in a score of ZERO on the assignment or assessment. Also, an unsatisfactory (U) will be entered for Citizenship and Work Habits for the semester. It is important to maintain academic honesty in all coursework. It is student's responsibility to read the student handbook to become fully aware of the school philosophy and policy on this subject. Talking during an assessment is considered cheating. Also, having any unauthorized materials out or present during an assessment will be considered cheating.

**Classroom Rules/Expected Behavior:**

1. Arrive to class on time and have all required materials.
2. Be respectful and polite to others at all times.
3. No food or drink (except water) during class.
4. No cell phones or other distracting electronic devices. The only time you're allowed to have cell phones out is when I tell you to for class activities.
5. No hats in class. Take your hat off before you enter the classroom.
6. Remain in your seat during the lesson.
7. Keep your desk and surrounding area clean.
8. No packing up school supplies or leaving early. I will dismiss you from class.

**Disciplinary Plan:** It is important that the classroom rules/expected behavior is followed so that there is a positive learning environment. The disciplinary plan is as follows:

**Consequences for Disruptive/Inappropriate Behavior**

1. Reteaching/Document Behavior
2. Verbal Warning/Reteaching/Document Behavior
3. Contact Parent/Reteaching/Document Behavior
4. Sent to Counselor's Office with Referral

**Extra Help:** If you feel like you need extra help with the material, e-mail me and we can set up an appointment, or you may come to my room 30 minutes before school. If you have a quick question, you could always email me or send me a message on Google Classroom or Parent Square to ask for help as well. I will reply within 48 hours of school time.