

**AP Statistics**  
**Mrs. Latka**  
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**Brief Description**

Many of the topics covered will be non-traditional high school math topics. However, these topics will have many real applications to other disciplines such as science, social science, business, health and humanities. The four main components of this course are: exploring data, planning a study, probability as it relates to distribution of data, and inferential reasoning. There is a strong emphasis to connect all aspects of the statistical process including exploring data, sampling and experimental design, anticipating patterns, statistical analysis and drawing conclusions. An emphasis is placed on communicating interpretations using the vocabulary of statistics.

**Materials Needed for Success**

1. The Practice of Statistics, Fifth Edition & Strive for a 5 workbook  
online textbook is available through the Copia app on Single-Sign-On
2. Graphing Calculator TI-84+ (required)
3. Notebook
4. Folder or 3-ring binder (lots of handouts and activities)
5. Pencil
6. Chromebook - must be charged and ready to go DAILY

**Student Expectations:**

- Bring all of your materials with you to class (calculator, assignments, notebook, binder)
- Be on time
- Cell phone use is prohibited.
- Take ownership of your choices; handbook rules will be strictly enforced
- No hoods will be worn during class
- Snacks will be allowed in class - no meals
- Use Google classroom/site to get missing assignments and notes from absences due to field trip, illness, etc.
- Keep an eye on your progress / Seek math tutoring help if you feel lost or confused
- Ask for help; give best effort
- Be in class - attendance plays a key role in your success - Don't miss out!

**Prerequisite:**

Successful Completion of the Algebra 2 Trig/Stats course or higher.

Grade Breakdown
<b>Assignment</b> (Homework, classwork, activities, etc.) 10%
<b>Quizzes</b> 20%
<b>Free response practice questions</b> 5%
<b>Tests</b> 50%
<b>Final Assessment</b> 15%

\*Final grades are not rounded as per Waubonsie Valley Math Department policy.

### Academic Honesty

*"We believe in an atmosphere that respects academic integrity, where learning and self-worth is reflective of genuine and honest work, and individual perseverance. And that, together, we -- the students, parents/guardians, and teachers -- are accountable for aligning our school and classroom with the expectations of these academic values."*

Students caught being dishonest will receive further penalties as described in the handbook.

**Tests & Quizzes:** Quizzes will be given throughout the unit and tests will occur at the end of each unit.

### Final Project (Second Semester)

Students design an observational study or controlled experiment, gather the data, analyze and display the results. An oral presentation, including a Google Slides presentation, is given to peers. This project is designed to allow the students to demonstrate their understanding of all aspects of the statistical process, including design, analysis and conclusions using appropriate statistical vocabulary in a professional setting.

**Assignments:** There will be an in class assignment/activity daily, and will be discussed the following day. Completing assignments ensures that you are working to understand the content that is being presented. This is a time in class where you will receive feedback on what you have completed and how to maximize your learning. Some in class activities are collected and are graded. Students will receive a packet of notes for most chapters. These notes are checked as they are assigned.

### Reassessment Policy:

- There are no retakes on quizzes, tasks or other in-class assessments.
- Re-do assignments must be completed by the day of that particular chapter's test.
- Reassessment - ***optional*** Students will have an opportunity to retake **one** unit test per semester and will be replaced only if it is higher than the original score. Group assessments are not available for reassessment.
- In preparation for participating in a retake exam, each student should complete a unit review assignment.

**Late Assignments:** All assignments must be completed by the day of the unit test.

- Students will receive partial credit on all other assignments that are turned in late, but before the unit test.

### Review for AP Exam (1-2 weeks)

Not only do we reserve approximately two weeks of class time for intensive AP Exam Review just prior to the actual AP exam, exam review is continuous throughout the year. Our end-of-the year exam review includes working through multiple-choice questions from a variety of sources as well as numerous and varied previous AP Free Response questions. In addition, students take a simulated AP exam in class over a period of 4 days. The Free Response Questions (often previous AP Exam questions) are graded in AP style with an emphasis on teaching the students to use appropriate statistical vocabulary. Grading rubrics are shared with the students throughout the year so they have an opportunity to gain an understanding of the level of response expected.

### Extra Help:

- Academic Resource Center (ARC): Available in the cafeteria during all lunch periods.
- I am available for extra help after school, please make an appointment.

