



JACKSON-REED HIGH SCHOOL
(FORMERLY WOODROW WILSON HIGH SCHOOL)
3950 CHESAPEAKE STREET, NW - WASHINGTON, DC 20016-1855
202-282-0120 www.wilsonhs.org

“Celebrating 87 Years of Excellence”

AP Statistics Syllabus

Instructor	Ms. Dina Reyes	Phone	202 282-0120
Classroom	403	Email:	dina.reyes@k12.dc.gov
Office Hours	3:45 - 4:45 pm (Wednesday) 3:45 – 4:15 pm (Friday)		

Course Description:

AP Statistics is equivalent to a one-semester introductory, non-calculus-based college course in statistics. The course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. There are four course themes: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. Students use technology, investigations, problem solving, and writing as they build conceptual understanding.

AP Statistics is a mathematics class for everyone. Students considering careers in science, engineering, business, management, political science, psychology, sociology, medicine, or any technical profession, as well as anyone who wants to become an intelligent consumer of statistical information are encouraged to take this course.

Statistics , not Calculus is the most required mathematics course at colleges and universities.

Required Textbook:

Stats, Modeling the World, 4th Edition, Bock, Velleman, & De Veaux by Pearson

References :

- The Practice of Statistics, 5th Edition, Yates, Moore, Starnes, & Tabor, W.H. Freeman & Company, c. 2014
- Barron’s AP Statistics (suggest buying at the beginning of the course)

Materials and Resources:

Webpage Resources:

1. Mymathlabforschool.com: Go to www.mymathlabforschool.com
Students can access digital textbook by chapter, power points and complete homework assignments

2. AP Classroom: Go to myap.collegeboard.org
Students can access AP Statistics resources, complete Unit Progress checks, Quizzes, and Practice Exams

3. Student.desmos.com : Go to <https://student.desmos.com/>

Materials:

3 –ring binder, notebook and paper (including graph paper)
TI- 84 Plus graphing calculator
Pencils, pens, erasers

Grading Policy:

This course follows the official DCPS grading scale. Unexcused late work counts for a maximum of 86%.

Breakdown:

Student Engagement (10%): (Previously called student participation): This category includes demonstration of active engagement in schooling through a variety of means including warm-ups, Desmos activities, and exit cards. In addition, credit for evidence of listening, speaking, writing, interacting, and/or leading during class discussions or group activities will be included in this category. Engagement contributes to student learning.

Practice & Application (50%): This category includes all student work products that practice and apply discrete and cumulative skills acquired from individual lessons.

Assessment (40%): This category includes all formal evaluations of individual student skills, knowledge, progress and mastery. Mock exam is included in this category.

REASSESSMENT POLICY

- Students will be allowed to be reassessed on Unit Test / Quizzes. However, students must show evidence as determined by the teacher that they have tried to relearn the material before taking the reassessment by making corrections on the original test/ quiz, going to Math Center, or meeting with the teacher for help during office hours and completing practice assignments.

Examinations: **Mock Exam: TBD**
AP Exam: May 4, 2023 (Thursday)-PM

Course Topics and Schedule:

Term 1-2

1. Survey / Sampling Methods	4. Displaying and Summarizing Quantitative data
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2. Experiments & Observational Studies	5. Describing and Comparing Distributions Numerically & Graphically
3. Displaying and Describing Categorical Data	6. The Standard Deviation and Normal Distributions
7. Percentiles and Normal Probability Plot	9. Linear Regression/ Regression Wisdom
8. Scatterplots, Association and Correlation	10. Re-expressing Data

11. Probability Addition & Multiplication Rule	16. Confidence Intervals for Proportions
12. Complements and Conditional Probabilities	17. Testing Hypothesis about Proportions
13. Random Variables	18. More About Hypothesis Tests
14. Binomial and Geometric Probability Models	19. Comparing Two Proportions
15. Sampling Distribution Models	20. Term 1 Review and Test

Term 3-4

1. Confidence Intervals for Means	5. More Inferences about Means
2. Testing Hypothesis about Means	6. Review and Testing
3. Comparing Two Means	7. Chi-Squared Goodness of Fit Test
4. Paired Samples and Blocks	8. Chi-Squared Test of Homogeneity / Independence
9. Inferences for Regression	12. Mock Exam
10. Review Units 1, 2, 3, and 4	13. Final Exam
11. Review Units 5, 6, and 7	14. Project Presentation

PARENTAL AND STUDENT ACKNOWLEDGEMENT

Parents/ guardians and student are requested to sign below as an indication that they have read the syllabus. If you have any questions/comments please contact me at dina.reyes@k12.dc.gov

Student _____
Print Name

Signature _____

Email: _____

Parent/Guardian _____
Print Name

Signature _____

Email: _____

Date: _____