2020-2021 Course Syllabus

AP Statistics (Two semesters; 5 units each semester)

The Advanced Placement Program offers a course description and examination in Statistics to secondary school students who wish to complete studies equivalent to a one-semester, introductory, non-calculus-based, college course in statistics. This course includes the use of technology, projects, and laboratories, cooperative group problem-solving, and writing, which will support students in building interdisciplinary connections with other subjects and with their world outside of school.

Statistics Students are exposed to four broad conceptual themes:

1. Selecting Statistical Methods: Deciding what and how to measure and analyze
2. Data Analysis: Describing patterns, trends, associations, and relationships in data
3. Exploring Random Phenomena: Producing models using probability theory and simulation
4. Statistical Argumentation: Justify a conclusion from data and statistical inference.

Students who successfully complete the course and examination may receive credit advanced placement, or both for a one-semester introductory college statistics course.
Prerequisite: Passing both semesters of Algebra 2 or Math 3 with a C or better.

Teacher: Vicki Feliz-Smith (Room B-14)
Email: vicki-feliz-smith@scusd.edu
Google Voice (Text): (916)399-3142
Website: Ms. Feliz's Math Page

Textbook: Online Textbook: The Practice of Statistics (6th Ed.) by Starnes and Tabor (Available soon, I am assured.)

Required Materials:

Graphing Calculator with a statistics package, such as TI 83/84

Notebook or binder on which to do your work and to keep it organized

Paper

Pencils

Straightedge

Computer because all work will be submitted on Google Classroom

JOHN F. KENNEDY HIGH SCHOOL
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Grading Policy: Grades are based on mastery, which will be determined by assessments, both written and oral, formative and summative. Regular practice will help students perfect the skills needed to master concepts. Participation in class is the most recommended, but if that is not possible, students are expected to communicate with the teacher as soon as possible. Progressing grade reports are available on scusd.edu in Infinite Campus, but assignment submission will be through Google Classroom. The math department complies with district protocol, viewable at scusd.edu.

GRADING SCALE

89.5 to 100%	A
79.5 to < 89.5%	B
69.5 to < 79.5%	C
59.5 to < 69.5%	D
0 to < 59.5%	F

Category grades are weighted below:
60% Assessments (Tests, Quizzes, Recorded Oral Presentations, and some Projects)
30% Assignments (Practice, some Projects, Class Activities, Warm-ups, and Exit Slips)
10% Participation (Interacting during online class in either real time or viewing pre-recorded lessons)

LATE SUBMISSION OR RESUBMISSION: It is the student's responsibility to find out what assignments, activities, and notes were missed and make up that work promptly. There is no penalty for late submission of resubmission if it is completed within two weeks of assignment due date. After that time, no more than 50% of the grade can be given for work that is seriously attempted.

Course Outline:

Semester 1	Semester 2
Data Analysis	Sampling Distributions
Modeling Distributions of Data	Estimating with Confidence
Describing Relationships (Regression)	Testing a Claim
Collecting Data	Comparing Two Populations
Probability: What are the Chances?	Inference for Distributions of Categorical Data
Random Variables	More about Regression
Final (Buffet test: The student chooses 3 topics)	Final and AP Exam and Final Project

Course Objectives :
Students will acquire and demonstrate knowledge of the concepts, definitions and properties required to meet the AP Statistics mathematics standards. Students will develop critical thinking and decision-making skills by connecting concepts to practical applications needed to be productive members of society. All students are expected to demonstrate the following objectives:

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- Students should be able to gather data responsibly and to work with data represented in a variety of ways: raw, graphical, or tabular and make the connections among these representations.
- Students should be able to communicate mathematics both orally and in well-written sentences and should be able to explain solutions to problems.
- Students should be able to model a written description of a physical situation with a function.
- Students should be able to use technology (graphing calculators, spreadsheets, and graphing software) to help solve problems, experiment, interpret results, and verify conclusions.
- Students should be able to determine the reasonableness of solutions, including sign, size, relative accuracy, and units of measurement.

Academic Expectations:

- Attendance – Online conferencing will be scheduled for class times. Please do your best to attend or contact Ms. Feliz to make other arrangements.
- Work Ethic – You may need to work both individually and with a group and participate enthusiastically and constructively.
- Prepare for class- Do all assigned work on time for upcoming class discussions and activities. Also, check your tech, appearance, and background for being in virtual class.

Academic Dishonesty: Academic dishonesty is considered a serious offense in any class. Students cheating will receive a zero grade for that assignment. I encourage collaboration on all practice assignments but I expect the work you submit (assignments, projects, exam/quiz, etc.) to be your own.

Behavioral Expectations (See JFK Student Handbook for details.):

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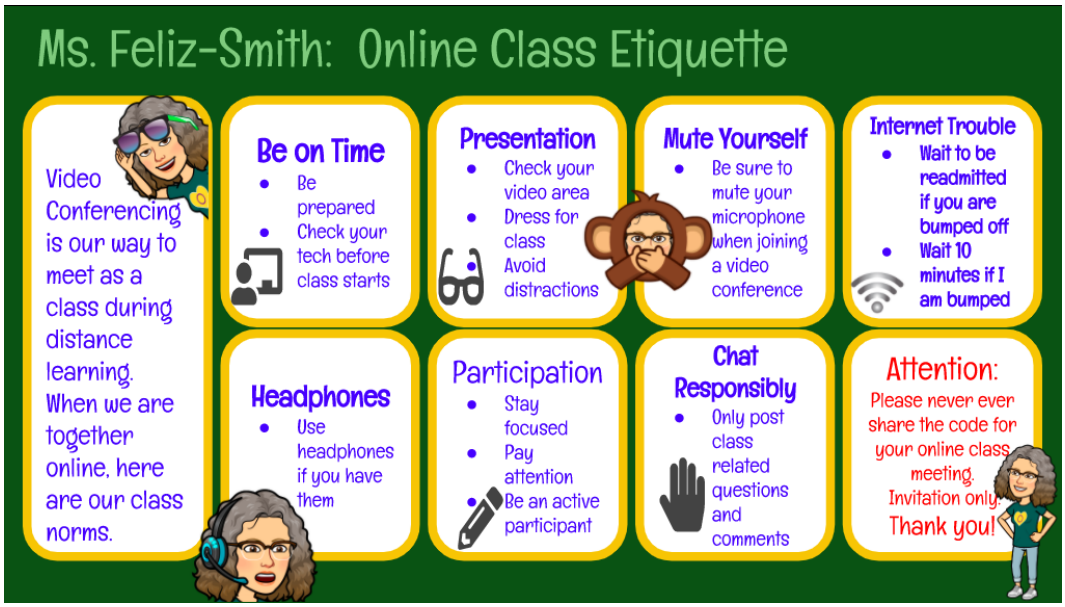
Online Classroom Rules: Just as in a real classroom, a virtual classroom must have standards of behavior in order to have the best environment for learning and socializing. Please review the practices outlined in the graphic. More information about virtual classroom environment can be found on Distance Learning (Ms. Feliz's Math Page).



ELECTRONIC DEVICES: Please do not listen to music, play games, snap photos, or text while you are video conferencing with your class. You need to remove distractions, and that means putting away your phone. I will also put away my phone and give you all my attention.

Extra Help: There will be online conferencing scheduled for your particular class.