



## 2021-2022 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 Math 3 or equivalent with a C or better.

**Teacher:** Vicki Feliz-Smith (Room B-14)

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Google Voice (Text): (916)399-3142

**Textbook:** The Practice of Statistics (6th Ed.) by Starnes and Tabor

### Required Materials:

Graphing Calculator with a statistics package, such as TI 83/84 (It may be signed out from the school.)

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

Paper

Pencils

Straightedge

Computer because work will be submitted on Google Classroom



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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](http://scusd.edu) in Infinite Campus, but assignment submission will be through Google Classroom. The math department complies with district protocol, viewable at [scusd.edu](http://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
50 to < 59.5%	F

Category grades are weighted below:

70% Assessments (Tests, Quizzes, Recorded Oral Presentations, and some Projects)

30% Assignments (Practice, some Projects, Class Activities, Warm-ups, and Exit Slips)

**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 or resubmission if it is completed within two weeks of assignment due date. After that time, 50% of the grade can be given.

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



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### 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:

- 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 – Have good attendance whenever possible. If you must be absent for an extended period of time, contact me and check Google Classroom.
- 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.

**Academic Dishonesty:** Academic dishonesty is considered a serious offense in any class. Students cheating will receive the lowest grade possible for that assignment and will not be allowed to redo it. 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.):

**CLASSROOM RULES:** The following few rules guide classroom behavior and activity.

- Masks will be worn at all times during class. They are available at the front of the room.
- Because of masks, it is hard to understand speakers. Ask for clarification, and kindly give it when you are asked.
- Students will sit in their assigned seats during class unless otherwise instructed.
- There will be no eating or drinking in the classroom. If you need to eat or drink during class, you must get a pass and go outside.
- If you need a pass, you will need to fill one out, and show it to me before you leave.
- Respect the speaker, whether it is the teacher, a student, or someone else.



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**ELECTRONIC DEVICES:** Please use your electronic devices to support your learning and have the good judgment not to use them for other purposes during class.

Extra Help: There will be tutoring available after school most days.