

AP Statistics – Don Soffer Aventura High School Course Syllabus, Mr. Levy, 2026-2027

AP Exam – Tuesday, May 11 @ 12pm

Contact Information / Office Hours

Contact Info:

Room: 415

Email: joseph.levy@aventuracharterhs.org

Remind App: Students join the Remind for their section of the course to receive important course updates.

Talking Points App: Two-way family communication system

Online information on slides, assignments, and recorded lectures is in our course on Schoology.

Office Hours:

I offer Office Hours at 3:30pm in my classroom on Wednesdays (additional office hours may be added on days prior to quizzes and exams). It is always best to let me know you are coming so that I can prepare material for you and to avoid conflicts with school events that I try to support, such as DS athletic/scholastic competitions.

Course Description - based on the College Board's AP Statistics CED (Effective Fall 2026)

The AP Statistics course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Beginning in 2026–27, the College Board has redesigned the course around the four-step statistical problem-solving process recommended by the American Statistical Association: (1) Formulate Questions, (2) Collect Data, (3) Analyze Data, and (4) Interpret Results. Students use technology, investigations, problem solving, and writing as they build conceptual understanding.

The content is organized into five units: (1) Exploring One-Variable Data and Collecting Data; (2) Probability, Random Variables, and Probability Distributions; (3) Inference for Categorical Data: Proportions; (4) Inference for Quantitative Data: Means; and (5) Regression Analysis.

The exam is 3 hours and is weighted 50% multiple-choice / 50% free-response. It now consists of 42 multiple-choice questions and 4 free-response questions (each worth 10 points), delivered in a fully digital format.

My goals for you: At the end of this course, I want all students to...

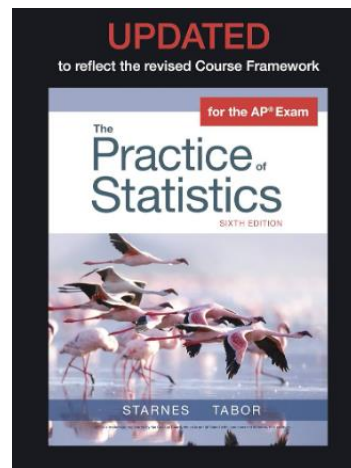
- 1) develop a positive relationship with statistical thinking/reasoning as you enter adulthood in a data driven world
- 2) have the ability to think critically and utilize statistical procedures and tools appropriately in order to analyze real-world information and to interpret and present meaningful results and conclusions which can be legitimately drawn from the information.
- 3) be prepared to do well on the AP Statistics exam & earn college credit for the course

Textbook

We are using "The Practice of Statistics (Updated Sixth Edition)" by Starnes and Tabor for this course. All students will have online access to the textbook and a physical copy, available to them in class.

This textbook has really excellent explanations and examples and a very conversational, easy to read tone. You should not need a physical copy of the textbook at home but are welcome to check one out should you want one.

While I will be covering the main ideas during our classroom lessons for some topics, the textbook will go into more depth and provide additional information that you may wish to read about, especially if you are trying to achieve a '5' on the AP Statistics Exam.



Additional Resources for Self-Study / Review

AP Classroom

This resource is provided directly by the College Board. There are video lessons on all topics that should be covered on the AP Exam recorded by expert AP teachers and AP Exam graders. If you are not satisfied with an explanation from Khan Academy (they tend to be more simple), please check out the associated topic on AP Classroom or send me an email so I can get you a more in-depth explanation.

Khan Academy

There are video lessons and sample questions for most topics assessed on the AP Exam. Make sure to check out videos for questions you are missing so you understand the reasoning behind the correct answers. This way, you'll not only succeed when you see identical or close-to-identical questions - but questions on related content.

Stats Medic

Stats Medic maintains a catalog of released past FRQs by topic that can be used to practice throughout the course and specifically ahead of exams. All FRQs should have associated solutions and scoring guidelines accessible via the College Board Website.

Classroom Policies

School Policies: This syllabus operates alongside the Don Soffer Aventura High School **Family Handbook** and **Code of Student Conduct**. Both are posted on the school website at aventuracharterhs.org → [Resources](#) → [Code of Student Conduct & Family Handbook](#). Students and families are responsible for reviewing both.

Respect is expected – In order to learn, we must have an effective learning environment. We don't usually have behavior issues in AP math classes, but behaviors that disrupt the learning environment will not be tolerated. Learning also requires open communication, and people must feel safe to share their thoughts and ideas. I respect my students, and I expect students to respect me, each other, and themselves.

Assigned Seats: Students are assigned a number which corresponds to a seat. Each student must sit in the seat corresponding to their assigned number. These seats will not always be in the same place in the room. If you need to sit closer to the front of the room, please come speak with me so that I can make an adjustment to the seating structure of the class.

Attendance: Consistent attendance is critical to success in a higher level math course. Please keep absences (including school-related) to a minimum. If you do need to miss class, you are responsible for requesting a class recording, any work you may have missed, and catching up in a timely manner. Every day will be used to learn and practice course related concepts and skills. It is very easy to fall behind and it becomes increasingly difficult to catch up when students are excessively absent.

Classroom Etiquette: Students are expected to be in their seats, ready to learn from bell to bell. Eating food is not permitted. Audio/video recording is expressly prohibited.

Bathroom:

- Students should use the bathroom before and after class and are encouraged to only use the bathroom during class for emergencies. Please do not assume that you will go to the bathroom during class every day. Time away from the classroom makes it difficult to stay caught up and learning.
- Only 1 student can be out of the room at a time and must take the class bathroom pass.
- Students must return within a reasonable amount of time.

Electronics:

- Phones will be collected at the door as per Don Soffer Aventura High School Policy.
- Laptops/tablets can be major educational distractions and are expressly prohibited in my classroom.

Active Participation:

- Students are expected to actively participate. Participation is tracked and students will receive a grade for their propensity to ask/answer questions in class quarterly.

How Your Grade is Determined

Grading Scale:

- A: 90%-100%
- B: 80%-89%
- C: 70%-79%
- D: 60%-69%
- F: 59% or lower

Grades will be updated on a regular basis (usually 1-2 days following an assignment / assessment). You can check your grades online using your parent or student login for via PowerSchool. If you have questions about your grade, please feel free to email me at any time or come see me during Office Hours. I will not discuss individual grades during class time.

Academic Integrity: Students are encouraged to work/study together and to complete assignments/assessments with fidelity. You are expected to be able to re-create any individual work you turn in under supervision in a test setting.

Late work policy:

Late work is discouraged as it inhibits my ability to give the class immediate feedback. All late work will be penalized 10 points per day (including weekends). If you know you will be absent, take a picture and submit assignments via email to avoid losing unnecessary late points. Late work will not be accepted after 5 days from the posted due date.

Letter Grade:

I believe that your course grade should be reflective of your mastery of course material. As such, I strive to align course grades with AP Exam Scores. Students should not expect to earn a grade in the course that is not aligned to the AP Exam Score they are on track to achieve (i.e. A = 5, B = 4, etc.).

The AP Statistics Exam is a challenging assessment. My assessments are designed to simulate the level of difficulty of the AP Exam. As such all assessments will be curved.

I do not bump individual student's quarter grades based on individual circumstances. I try very hard to offer as much help as possible throughout the quarter and to be extraordinarily fair and equitable. Please do not ask for an exception to this policy. **You have all quarter to earn the grade you desire.**

Your AP Exam Score is an amazing way to boost your overall course grade:

AP Exam Score	Grade if Higher than Final
5	A
4	B
3	C

Cheating on an assignment or assessment during the course renders a student ineligible for the grade boost incentive.

Quarter Grade Composition

Q1-Q3: Content

For the most part, we will be following the order of the College Board's AP Stats Course and Exam Description (Effective Fall 2026). Larger units will be split in half to make them easier to tackle and assess. Each modified unit may contribute to the overall course grade through the following components:

- Knowledge Checks (5 points each – lowest per quarter dropped)
- Random Binder/Problem Packet Check (5 points each)
- Individual Assignments/Labs (5 or 10 points each)
- Quiz (20 points)
- Unit Review Game (10 points, tiered) – a consolidation challenge the class before each unit exam
- Exam (30 points)
- Cumulative AP Exam (30 points) – after Unit 2 and after Unit 4

A participation grade (5 points) may be given each quarter that measures the frequency with which students are on task and following the lecture.

Q4: Review & Exam Preparation

The 4th quarter will primarily focus on reviewing the course content and preparing for the AP Exam.

- Unit Mini Quizzes (10 points)
- Review Games (5/10 points)
- MCQ Mock Exams (30 points)
- FRQ Mock Exams (30 points)

Artificial Intelligence (AI) Use Policy

AI tools are part of the world you are heading into, and knowing when to reach for one — and when not to — is a real skill. But statistics is a reasoning course, and the reasoning has to be yours. Every task in this course therefore carries an AI level from 0 to 4, which tells you exactly how much help you are allowed to take:

0	No AI	Human only. In class, on paper, or a process I can see.
1	Brainstorm only	Use it to get unstuck. Nothing it wrote appears in what you turn in.
2	Editor / tutor	You write it. It critiques. You decide what to change.
3	Collaborator	Use it in the work, and tell me where and how you used it.
4	AI-forward	Using it well IS the skill being assessed here.

Default: every assignment is Level 0. Unless I state a different level in writing — on the assignment itself or in the Schoology posting — the assignment is Level 0 and no AI use of any kind is permitted. If you do not see a level, it is Level 0. If you are unsure, ask me before you start, not after you submit.

Keep this in perspective. There are very few graded assignments in this course. The overwhelming majority of your grade is determined by your performance on content-based assessments — knowledge checks, quizzes, unit exams, and cumulative AP exams — which are completed in class, in front of me.

Using AI beyond the stated level for an assignment is a violation of the Academic Integrity policy above and of the Don Soffer Aventura High School Code of Student Conduct. As with any other form of cheating, it also renders a student ineligible for the AP Exam grade boost incentive.

Absences, Makeup and Retakes Policy

The goal of this class is to guide students toward a complete mastery of course material. This is done by making incremental progress steadily throughout the course – much of the later material depends upon mastery of the previous course material. **It is very important that student attend class. New material or very important practice work happens every day.**

If you miss class, you will need to find alternate ways to learn the material (read the textbook, review online lecture notes, ask other students in class for help, come to Office Hours for help, etc.) Note that you are still responsible for knowing the material, even if you miss class. Our makeup and retake policy aims to encourage students to stay caught up at all times because this is so critical to overall success in the class.

Grade Replacement: Students who score higher on a Unit Exam than a Unit Quiz (same unit), will automatically have their original curved quiz score replaced with the average of their curved quiz score and curved exam score. A student who is absent for a quiz will have the missing grade replaced with their curved Unit Exam score.

Retakes/Makeups: Retakes are **not offered** for AP Statistics. Makeups are offered for Unit exams only. They are typically longer, and more challenging than the original version of an assessment to account for the additional time students have to study for them. Each makeup is only offered once and is on a specific date at 3:30pm. The Exam Poster Incentive does not impact quiz grades in any way.

Materials and Supplies

Please have the following with you during all class sessions:

- Charged Graphing Calculator: You will need a graphing calculator which includes statistical test and matrix functions. I recommend (and will check out) the Ti-84 calculator (any edition). We do not need any of the more advanced features of calculators like the Ti-89 or nSpire and those calculators have more complicated user interfaces.

We will use a Ti-84 for all class demonstrations. You can use other calculators although you will be responsible for learning your calculator's interface, as long as they have the following capabilities:

- Matrices
- Normal curve functions: normalcdf, invNorm
- T-distribution functions: tcdf, (invT is also helpful)
- Statistical graphs: scatterplot, histogram, boxplot, normal probability plot
- 1-variable statistics: mean, median, standard deviation, Q1, Q3
- Linear Regression functions: LinReg ($a+bx$) and ability to generate a residual plot.
- Statistical inference tests: Hypothesis tests and confidence intervals for 1- and 2-proportions, 1- and 2-means, and the Chi-square test for homogeneity/independence.

You will need your calculator for knowledge checks / quizzes / exams. Students cannot share a calculator for any type of knowledge check or assessment of any kind.

- Paper and pencil/eraser
- AP Statistics Binder: Notes are required. Random binder checks will serve as graded assignments. As such, students need a dedicated 3 ring binder for AP Statistics that I can keep to grade overnight and return the following class period.

Classroom Wish List: please consider sending any of the following items with your child for communal classroom use

- Tennis Balls (for desk/chair legs) to keep the floor polished and shiny throughout the year.
- Colored Reams of Paper (I provide colored reference sheets for exams throughout the course)

Keys to Success in this Course

A plan for success: If you do the following, you greatly improve your chances of succeeding in this class:

- Consistently come to class ready to learn. Attendance matters and every day is an opportunity to build on your knowledge and not fall behind. Try to go to the bathroom before/after class so you don't miss an important concept or the opportunity to practice an important skill.
- Don't wait until just before the unit test to ask questions - ask questions as soon as you don't understand something. I love for class to be interactive and we all learn more from a dialogue than a monologue.
- If you are unable to get correct answers, or don't understand anything, ask questions as soon as possible in class. Keep asking questions until you understand. If there isn't enough time during class, come to Office Hours.
- Review your notes each night for 10 minutes. You will shine on the knowledge checks and be ready to consume new content that builds upon what you already know each day.
- Use all the provided review materials to spend significant time at home reviewing for unit exams.
- Complete all required homework on time.
- Take full advantage of any extra opportunities.
- Catch up for missed class time. My slides are posted on Schoology at the end of every school day. Make sure to look through the slides, take notes, or get them from a friend who was present in class. You are responsible for the content by the next time you are in class.
- Come to my Office Hours! If you have any questions about the content (no matter how old), or your performance on any assignment or assessment, the best time to have a 1-on-1 discussion is in my office hours.

I look forward to learning with you!

Mr. Joseph Levy
Don Soffer Aventura High School

After reading carefully, please sign, date, and return this syllabus no later than Monday, August 17, 2026.

Student Printed Name

Parent/Guardian Printed Name

Student Signature

Parent/Guardian Signature

Date

Date