

**Calculus AB Syllabus**  
2022-2023

**Teacher:** Jennifer Ramon

**Email:** [jramon1@houstonisd.org](mailto:jramon1@houstonisd.org)

**Office Hours:** M&F 1:00-1:40 PM; W 12:15-1:00 PM; Th 12:25-1:00 PM

**Remind:** Class Code @a3bcc6

**AP Classroom:** Class Code AQQX2Q

**Course Outline:**

Limits and Continuity (Aug. 23 – Sept. 1)  
Derivatives (Sept. 2 – 26)  
Applications of Derivatives (Sept. 27 – Oct. 24)  
Particle Motion and Integrals as Area (Oct. 25 – Nov. 18)  
Semester Review & Exams (Nov. 28 – Dec. 21)  
Integral Rules (Jan. 9 – about Jan. 27)  
Applications of Integrals (about Jan. 30 – Feb. 16)  
Differential Equations (about Feb. 17 - March 10)  
AP Exam Review (about March 20 – May 8)  
Post-Exam Topics, Review, & Semester Exams (about May 9-31)

*All dates are subject to change due to weather, public health, or other emergencies.*

**Other skills you should gain/improve upon:**

Problem Solving Skills  
Critical Thinking Abilities

**Supplies:** Binder, looseleaf paper, graphing paper, pencils, pens, laptop, and access to a graphing calculator or graphing app at home (if you don't already have a graphing app you like, I recommend Desmos)

**Textbook:** Larson, *Calculus Early Transcendental Functions*, 6<sup>th</sup> Edition (available online through WebAssign)

**Grading:**

75% of your grade will be based on your work on comprehensive tests, quizzes, projects, review quizzes on UH CASA, and other Major Assignments. (These grades are on a point-based system. Your grade will be calculated by the points you earned divided by the total points available.)

15% of your grade will be based on Homework, which will mostly be checked online through WebAssign.

10% will be based on short in-class minor assignments, such as Memory Quizzes and Understanding Checks.

**Homework:** Homework assignments are problem-solving practice which will be assigned during each class and checked on the next class day; most of these will be on WebAssign, some will be on AP Classroom, and a few will be worksheets. Your grade on homework assignments will be based primarily on completion. It is expected that you will complete homework when it is assigned, so that you can come in for tutorial help before class and clarify any misunderstanding. Videos will also be assigned through AP Classroom reviewing and expanding upon important topics; you will receive one homework grade at the end of the cycle representing your keeping up with the videos for that grading cycle.

**Memory Quizzes and Daily Understanding Checks:** Class each day will begin with either a Memory Quiz, an ungraded Warm-Up, or a timed Understanding Check.

- Memory Quizzes are individual closed-note pop quizzes be given over routine material that students are expected to know. Most will be administered on Canvas, but some may be given orally by the teacher.
- Understanding Checks consist of problems related to the homework from the previous week. These may be given on Canvas or completed using paper-and-pencil, depending on the topic. Students may have access to

their homework and notes to help activate memory. **You are expected to show your work to receive credit** for free-response Understanding Checks.

**Quizzes:** Quizzes may consist either of FRQs (free response questions) or MCQs (multiple choice questions). Quizzes' points will be stated on the quiz (usually 50-65). Partial credit can be earned on FRQs by showing work and giving appropriate AP justifications. Quizzes will be paper-and-pencil and will be given during one class period.

**Tests:** There will be a test to wrap up each unit and a midterm/final at the end of each semester. All tests are cumulative. Partial credit can be earned on FRQs by showing work and giving appropriate AP justifications. Most tests will have both an MCQ section and an FRQ section, which will be separate grades in the gradebook, and the number of points will be listed on each section; most tests will be around 100-120 points.

**Quiz and Test Corrections:** Students may complete optional assessment corrections to earn back at most 5 percent of the total points if the grade is below 90%, and half the missed points if the grade is above 90%. Corrections must be completed under teacher supervision; I suggest you do these during my office hours. Students may seek help from the teacher, peers, or other teacher-approved sources, but your work must be your own. Students must correct every incorrect problem and include the following for EACH problem:

- Identify and correct the error
- Written explanation of how to work through the problem
- Written strategy to avoid the error in the future

**Late/Missing Work:** A late homework grade of 0% (missing) or 50% (started but not completed) can be raised to a 70% by requesting an extension on the WebAssign platform and completing it no later than 2 class periods after it was originally assigned. Late out-of-class projects will receive a 30% penalty if turned in within 2 class periods and a 50% penalty thereafter. If you need an extension for an out-of-class assignment due to illness or family emergency, you should email me as soon as you know you need it. If you are absent on the day of a quiz, test, or other in-class graded assignment, you must contact me (preferably via email) as soon as you return and make up the quiz or test within two days of returning to class.

**Retakes:** If students are not satisfied with their grade on a quiz or test, students may request a retake in writing or via email. Students must first complete corrections for the assessment they plan to retake; corrections are due at least 24 hours before the scheduled retake. Two retakes are allowed each grading cycle. Students can make a maximum of 70% on a retake. A retake must be requested by the student within 24 hours of receiving their test back in class.

#### GRADING SCALE:

- A: 90-100%
- B: 89-80%
- C: 79-75%
- D: 74-70%
- F: below 70%

**Extra Credit:** Students can receive extra credit for placing or advancing in various competitions (UIL, American Math Competition, Rice Math Tournament, UH Math Contest, A&M Math Contest, Math Madness) throughout the year.

**Participation Policy:** Regular attendance with active participation and a positive attitude is necessary to successfully complete this course. You are responsible for your understanding of the material. If you do not understand something, please ask questions or seek extra help. I am available during lunch office hours every day except for Tuesday, and during SSEP every day except Thursday by request (get a pass from me the day before). Please come see me as soon as you know you have a question; if you don't know what the question is, we'll figure it out together.