

AP Calculus AB Syllabus

Mr. Chang – Lake Dallas High School

Fall 2026

Dear Parents and Guardians,

Welcome to AP Calculus AB at Lake Dallas High School! This syllabus outlines the course plan for your child's class this semester, including key topics, expectations, and how you can support their success. As required by Texas law (Senate Bill 12), this document serves as the instructional plan and is available for your review. I look forward to working with you and your child!

Contact Information

Teacher: Noah Chang

Email: nchang@ldisd.net

Phone: (940) 497-4031

Conference Time: 10:00 - 10:45 (4th period)

Tutorials: Mondays, Tuesdays, and Thursdays 3:00pm - 3:45pm (or mornings by appointment)

Best Way to Reach Me: Parent Square or email is the fastest way to reach me. I'll typically respond within 24 hours on school days.

Course Information

AP Calculus AB is a college-level course designed to develop a deep, conceptual understanding of functions, graphs, limits, derivatives, and integrals. Aligned with the College Board curriculum, this course emphasizes a multi-representational approach, expressing concepts graphically, numerically, analytically, and verbally. Students will learn to calculate instantaneous rates of change (derivatives), find areas under curves (integrals), and model real-world dynamic systems. Through rigorous problem-solving and critical reasoning, students will build the foundational skills necessary to excel on the AP Exam and pursue advanced studies in STEM fields.

Class Expectations

Students will be expected to:

- Be respectful of their peers, their environments, and their instructor
- Take responsibility for their actions
- Always give their best effort
- Be an active participant
- Come to class prepared
- Maintain academic honesty and integrity
- Celebrate mistakes! This means you are LEARNING!

Classroom Supplies

Each unit will have a notes packet that will be provided. Calculators are also provided. We will have a class set of TI-Nspire CX / CX-II, and a mix of Desmos on the iPads. All I require is a **binder or folder** to hold onto all the notes and a writing utensil.

Grading Policy

Minor Grades - 40% of grade

Exit Tickets - 20-50 points

Assignments / Practice - 100 points

Major Grades - 60% of grade

Quizzes - 100 points

Tests - 200 points

Since this is an AP course, I want students to understand the importance of the test, since the main purpose of this class is to prepare students for the AP exam! Thus, **the weights have changed for this course**. Exams are also weighted more in college, so this will also prepare them for their future.

Please refer to the student handbook for more information regarding late work, missed work, and retesting policies.

Daily Work and Homework

Homework will be assigned regularly and will include assignments due the next day as well as skills practice that are intended to be completed over several days. Skills practices will be due the day of a quiz / test.

It is important for students to do their assignments on time as this course builds on prior knowledge every single day! All assignments are intended to help students practice their skills or highlight connections between material we have learned or will be learning soon.

Exams

Every unit will have a quiz and a test. The scoring will be 50% multiple choice and 50% free response. All quizzes and tests are NOT open-note, to replicate the environment of the AP test.

Students may complete open-note exam corrections after each exam to recover 50% of the points missed. Exam corrections must be completed during my tutorial hours and may not be completed during class. All exams and correction materials must remain in the classroom, and cell phones may not be used during the correction process. There is no minimum or maximum score required to complete corrections. All exam corrections must be submitted within 10 calendar days of the grade being posted in Skyward.

Course Overview (Instructional Plan)

This course is intended to prepare students for the Advanced Placement (AP) Calculus AB test administered by College Board. As such, this semester your child will study the following topics in Calculus, based on the standards set by College Board in the Course and Exam Description (CED):

Unit	Topics	CED
Unit 1	Limits, Squeeze Theorem, Continuity and Discontinuity, Horizontal and Vertical Asymptotes, Intermediate Value Theorem	1.1-1.16
Unit 2	Average and Instantaneous Rate of Change, Derivatives, Differentiability, Power Rule, Quotient Rule, Derivatives of Non-Polynomial Functions	2.1-2.10
Unit 3	Chain Rule, Implicit Differentiation, Inverse Functions, Inverse Trig Functions, Higher-Order Derivatives	3.1-3.6
Unit 4	Contextual Applications of Differentiation, Related Rates, L'hôpital's Rule	4.1-4.7
Unit 5	Mean Value Theorem, Extreme Value Theorem, Global and Local Extrema, Critical Points, First Derivative Test, Candidates Test, Second Derivative Test, Optimization, Implicit Relations	5.1-5.12

Technology

Per HB1481, use of cell phones and all other personal communication devices are prohibited during the course of the school day. This includes airpods. The district's and state's policy regarding cell phones, smart watches, and airpods will be followed in my classroom.

Thank you for supporting your child's education! Feel free to contact me with questions.

Sincerely,
Mr. Chang