

AP Calculus BC — Course Syllabus 2026–27

Oct 2026 → Apr 2027 · Exam early May 2027 · High school · 2 × 90-min sessions / week + 3–5 hrs homework

Instructor: _____ Room / Period: _____ Contact: _____ Office hours: _____

1. Course description

AP Calculus BC is roughly equivalent to two semesters of college calculus. We cover all of AB (Units 1–8, about 60% of the BC score) plus BC-only parametric, polar, and vector-valued functions (Unit 9) and infinite sequences and series (Unit 10, about 17–18% of the exam). Students also earn an AB subscore. The course emphasizes limits, differentiation, integration, series, and modeling — with justification and communication held to the official free-response rubric from day one.

2. Exam format (teach to this from day 1)

Section	Content	Weight
Section I: 45 MCQ, 105 min	Part A: 30 non-calculator; Part B: 15 calculator-active	50%
Section II: 6 FRQ, 90 min	2 calculator-active + 4 non-calculator; always ≥ 1 Series + ≥ 1 Parametric/Polar	50%

Score targets: 5 $\approx$ 65–70%, 4 $\approx$ 55%. Calculator must be in **RADIAN** mode on exam day.

3. Materials

Graphing calculator (TI-84 series or TI-Nspire) charged for every class; pencils; notebook or binder for correction logs; AP Classroom enrollment (Unit Progress Checks + Question Bank); one review book (Barron's / Princeton Review / Marco Learning) recommended for April.

4. Month-by-month schedule

Month	Units	Topics	Assessment
Oct	1	Precalc reboot (trig, log/exp, piecewise); limits, continuity, IVT, asymptotes, squeeze	Unit 1 quiz/test; 15 MCQ exit (11/15)
Nov	2–3	Derivative definition; power/trig/exp/log, product/quotient/chain; implicit, inverse, 2nd derivatives; L'Hôpital	Derivative speed drill; table FRQ
Dec	4–5	Related rates; motion; linearization / MVT, EVT; 1st/2nd derivative tests; optimization; sketching	Half-length AB diagnostic
Jan	6	Riemann sums; FTC 1 & 2 + chain rule; u-sub; by-parts; partial fractions; improper integrals	Unit 6 test; accumulation FRQ
Feb	7–8–9	Slope fields; separable + logistic ODEs; Euler; area/volume/cross-sections/arc; parametric, polar, vector + planar motion	Full AB mock ($\geq 55\%$ to advance)

Month	Units	Topics	Assessment
Mar	10	Sequences; geometric; nth-term, integral, p-series, comparison, limit comparison, alternating, ratio; Taylor/Maclaurin; Lagrange bound; radius/interval	1 timed Series FRQ / week
Apr	Review	2017/2015/2011/2008 guided FRQ solutions; 2022–2024 full timed BC exams; rubric + calculator clinic; taper week	2–3 full BC exams

5. FRQ rotation

Month	Assigned free-response practice
Oct	IVT / limit justification; 2017 AB/BC 4a (tangent line)
Nov	2019 AB #4 (table); 2015 AB/BC 3a; 2017 AB/BC 4b (concavity)
Dec	2011 AB #1a (motion); 2015 3c (acceleration); 2022 AB #2
Jan	2015 AB/BC 1a/1d (accumulation); 2011 AB #2b (trapezoidal); 2023 BC #1
Feb	2011 AB #3c (volume); 2015 AB 2ab (area/volume); 2023 BC #4 (polar/parametric); 2017 AB/BC 4c (ODE)
Mar	2022 BC #6, 2023 BC #6, 2024 BC #6 (series — one per week, timed)
Apr	2015 / 2011 / 2008 guided solutions + full 2022, 2023, 2024 released BC exams

6. Grading & expectations

Suggested weights: unit quizzes/tests 40%, FRQs + correction logs 25%, monthly mocks 20%, homework + checklists 15%. Every FRQ is graded with the official scoring guidelines — setup lines, justification sentences, units, and sign-change references earn points even when the final answer is wrong. Students keep a personal miss-list (5 worst MCQ + 1 worst FRQ per mock, redone with written corrections). No new content is assigned within 48 hours of the exam; taper week is formula-sheet review, sleep, and logistics only.

Class rules: calculator charged and in radian mode; show setup integral + limits before evaluating; never leave an FRQ blank — write the setup for partial credit; cite continuity/differentiability hypotheses when invoking IVT/MVT.

Acknowledgment — please sign and return

We have read this syllabus and understand the schedule, materials, calculator policy, and assessment plan for the May 2027 AP Calculus BC exam.

Student name (print): _____

Student signature: _____

Parent/guardian (print): _____

Parent/guardian signature: _____

Date: _____

Full syllabus + weekly checklists:

<https://ap-calc-bc-2027.app.txtamsg.com>

Sources: College Board AP Calculus BC Course Framework + AP Classroom + released FRQs with scoring guidelines. Site: <https://ap-calc-bc-2027.app.txtamsg.com>