

Naperville North High School

AP Calculus BC



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Mission

To educate students to be self-directed learners, collaborative workers, complex thinkers, quality producers, and community contributors

Course Description

This course is intended for those students wanting a college level mathematics course. The material presented will be more rigorous than in previous mathematics courses with emphasis placed on derivations, problem solving, and connecting graphical and algebraic techniques. Students desiring one semester of college placement/credit will be encouraged to take the Advanced Placement Exam. A graphing calculator is required.

Course Standards

The Course Standards parallel the Standards set by the College Board

- Limits and Continuity
- Differentiation: Definition and Fundamental Properties
- Differentiation: Composite, Implicit, and Inverse Functions
- Contextual Applications of Differentiation
- Analytical Applications of Differentiation
- Integration and Accumulation of Change
- Differential Equations
- Applications of Integration
- Parametric Equations
- Polar Equations
- Vector Valued Functions
- Infinite Sequences and Series

Grading Practices

Grades communicate each student's progress toward mastery of goals/standards for the course.

- No extra credit will be issued.
- Violations of the academic integrity policy will be consequence by administration in collaboration with the DC/teacher.
- Practice work is a fundamental part of the learning and preparation process and will not be accepted after the due date unless specifically requested by the teacher.
- A zero will only indicate that no attempt was made by the student. If a legitimate attempt is made on an assessment, a score of 50% will be the lowest possible grade.

Grading Disbursement

A \geq 89.5%

B \geq 79.5%

C \geq 69.5%

D \geq 59.5%

F < 59.5%

Semester Grade:

- Coursework = 85%
- Evidence 95%
- Tests and Quizzes 90%

- Homework Quizzes 5%
 - Practice 5%
 - In Class Activities
- Final Exam =15%

Academic Integrity Code Statement

District 203 students are challenged to address the academic process enthusiastically, diligently, and most importantly, honestly. It is the responsibility of our students, teachers, and administration to uphold the fundamental academic values of honesty, responsibility, fairness, respect and trust. The integrity of our district's academic programs is built upon these principles.

Academic integrity violations include, but are not limited to, cheating; plagiarism, self-plagiarism or copy infringement; obtaining or providing an unfair advantage; falsification of documents; unauthorized access to records; and inappropriate collaboration, whether intentional or unintentional. The classroom teacher and administration will collaborate and exercise professional judgment in determining academic integrity violations.

The use of translating devices and/or direct translation from a native speaker or tutor is strictly forbidden. You must do your own work. Remember: There is a significant difference between getting help and having something or someone else do your work for you. There are consequences both academic and non-academic for students who do not adhere to this policy. Violations will be tracked and added during your time at NNHS.

Reassessment Policy

Students will be provided multiple and varied opportunities to demonstrate mastery of learning standards. The purpose of reassessment is to allow students to demonstrate mastery of course standards in which they remain deficient.

- Students will be required to engage in further learning and reassessment when students do not demonstrate sufficient learning of the course essential standards.
- Students who have demonstrated sufficient learning of the essential standards (but scored below 80%), will be allowed reassessment opportunities on unit assessments if they so choose. To be eligible for reassessment, students must demonstrate readiness for the summative assessment through completion of teacher determined activities.
- Reassessments MUST be completed within 5 days of receiving feedback from the teacher.
- Higher reassessment grades will replace the original assessment score (but will not exceed 80%).

Additional Resources for Support

- Make an appointment with your teacher: before school, after school, or during the school day
- Drop in for Peer Tutor/Math Help before school or during lunch periods through the Literacy Center.
- After-School Tutoring in Learning Commons (check with Student Services for schedule.)
- Online Resources:
 - Canvas (notes, practice): <https://naperville.instructure.com>
 - AP Classroom: <https://myap.collegeboard.org/login>
 - Khan Academy AP Calculus BC: <https://www.khanacademy.org/math/ap-calculus-bc>

Parents & Guardians/Communication

Naperville North believes in a collective partnership with parents/guardians which provides students the best opportunities for success.

Some ways parents/guardians can support their student's learning are:

- Encourage your student to speak directly with their teacher about questions or concerns.

- Actively check Infinite Campus for their student's grade.
 - Infinite Campus is a tool to monitor student progress until final course grade is posted.
 - Monthly progress grades are posted and represent the current grade of a student in the course at that moment in time.
- Discuss missing assignments, reiterate due dates, help organize folders, materials, assignment notebooks and review upcoming projects and assessments.
- Teachers make every effort to respond to parent emails and phone calls within 24 hours during the work week.
- The best way to communicate with teachers is through email; however, if you haven't received a response within 48 hours, please resend the email or call their voicemail. Your email may have been filtered.