

# Naperville North High School

## AP Calculus BC (2022-23)



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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 Calculation Definitions

At Naperville North we define formative and summative work as follows:

- Formative work is used to monitor student's learning to provide ongoing feedback that can be used by students to improve their learning. Examples may include: practice activities, homework, etc.
- Summative work is used to evaluate student learning at the end of an instructional unit or segment of learning by comparing it against a standard or benchmark.

### Grading Practices

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

- No extra credit will be issued.
- In Infinite Campus, a score of "Missing" (M) will indicate an assessment has not been turned in and the comments section will include a specific date by which students can still submit. After that date, a zero (0) will be recorded.
- Summative work submitted after the original due date cannot be penalized more than a total of 10% and must be submitted no later than two weeks after the original due date.
- If a legitimate attempt is made on a Summative assessment before the conclusion of the next unit, a score of 50% will be the lowest possible grade.
- Violations of the academic integrity policy will be consequence by administration in collaboration with the DC/teacher.

- **Formative work:**
  - Accepted up to the end of each unit
- **Summative work:**
  - A zero on a summative assessment will only indicate that no attempt was made by the student
  - Summative work submitted after the due date cannot be penalized more than a total of 10% and must be submitted prior to the end of the next unit.

## 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% (Summatives(Individual Assessments = 90%, Formatives= Practice/Homework 10%)
- 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 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 summative assessments if they so choose. To be eligible for reassessment, students must:
  - Demonstrate readiness for the summative assessment through completion of formative work.
  - Complete designated learning experiences as assigned by the teacher
  - Students are expected to seek additional help before they take the initial assessment.
- Reassessments MUST be completed during the next unit of study.
- Project-based assessments that include multiple opportunities for feedback and improvement in the assessment process will represent multiple attempts and be considered a reassessment
- 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.