

# Naperville North High School

## Precalculus (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 designed for students planning to study college level calculus. A heavy emphasis is placed on the analysis of functions (application and theory). The topics are listed below. **A graphing calculator is required.**

### Course Learning Topics

- Functions and their Graphs
- Linear and Quadratic Functions
- Polynomial and Rational Functions
- Exponential and Logarithmic Functions
- Conic Sections (as time allows)
- Trigonometric Functions
- Applications of Trigonometric Functions
- Analytic Trigonometry
- Polar Functions
- Matrices

### Grading Calculation Definitions

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

- Formative work is used to monitor students' learning to provide ongoing feedback that can be used by students to improve their learning.
- 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.
- Violations of the academic integrity policy will be consequence by administration in collaboration with the department chair and teacher.
- 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.
- **Formative work:**
  - Accepted up to the end of each unit.
- **Summative work:**
  - 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.
  - 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= 100-90%

B= 89-80%

C= 79-70%

D= 69-60%

F= 59-0%

Semester Grade:

- Coursework = 85% ~~{(Summative= Tests 60%, Formative= Quizzes 30%, Practice/Homework 10%.)}~~ {(Summative= Test and Quizzes: 90%. Formative = 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 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 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
- 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.)
- Sign up for a WIN time in a Pre-calc section (if not assigned)
- Online Resources:
  - Digibook Algebra 2: <https://naperville203algebra2.weebly.com/>
  - Digibook Geometry: <https://naperville203geometry.weebly.com/>
  - Digibook Algebra 1: <https://naperville203algebra1.weebly.com/>
  - Canvas (notes, practice): <https://naperville.instructure.com>
  - Khan Academy Precalculus: <https://www.khanacademy.org/math/prec calculus>

## 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.