NNHS Discrete Math Syllabus

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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 as an alternative to Precalculus for students desiring an additional year of mathematics. Topics covered in the first semester will include modeling, applications, election theory, fair division algorithms, matrices, graph theory, tree diagrams, counting and probability, and recursion. The entire second semester is devoted to the study of statistics with a review of some probability. The semester course offerings are non-sequential. A graphing calculator is required.

Course Learning Standards

- Group ranking methods
- Analysis of weighted voting situations
- Algorithms for dividing and estate and apportioning governmental seats
- Matrix operations
- Predicting Population growth using the Leslie model
- Graphs for modeling relationships
- Properties of circuits and paths
- Planarity
- Properties of trees and their applications to optimization problems
- Using matrices to describe the best strategy in “game” situations
- Using the Leontief model to describe the flow of goods and services in 2 and 3 sector economies

Grading:

Your course grade will reflect what you have learned, not what you have completed!

Overall Semester grade:

85% of the Course grade,
15% final exam.

The final semester grade will be rounded to the nearest percentage point.

Course Grade

Each unit/standard is assigned a particular percentage.

Within each unit, summative and formative sections are weighted as follows:

85% Summative (tests, quizzes, projects), 15% Formative (Daily Work)

Grading Disbursement:
A= 90-100  B= 80-89  C= 70-79  D=60-69  F= <59

Any percentage lower than 50% will be put into the grade book as a 50%, the lowest possible grade on completed work (incomplete or work not turned in will receive a grade of 0 in the grade book).
Reassessment Policy

**Summative Assignments (tests, quizzes, projects):** These assignments must be completed before the end of the following unit.

**Formative Assignments (labs, class work, activities, homework):** All work must be completed by the end of the current unit. Anything turned in after the end of the unit will not receive credit

**Reassessment Policy (reassessments are only on summative work, excluding final exams):**

1. All students will be offered reassessments on unit tests at the end of each unit.
2. The higher of the two scores will be entered in Infinite Campus.
3. The reassessment times and locations are left up to the individual teacher.
4. Students must have no outstanding assessments and all of the homework associated with targets being reassessed must be complete.

Communication

- Teachers make every effort to respond to emails and phone calls within 48 hours during the work week.
- The best way to communicate with teachers is through email; however, if you haven’t received a response in 48 hours, please resend the email or call their voicemail. Your email may have gone into the spam folder.

Help

- Make an appointment with your teacher.
- Attend S.O.S (supervised open study) in the Literacy Center M, W & Th from 3:15 to 4:15.
- Drop in for peer tutor during lunch periods or before school through the Literacy Center.

Parents or Guardians

We need your help!
- Parents should actively check Infinite Campus for their student’s grade.
  - The grades on Infinite Campus will be accurate only at Mid-Quarter and Quarter. Prior to those dates, the grade reflected is fluid.
  - Infinite Campus is a communication tool until final grade is posted.
- Please ask your student about their school work
- Check with your individual teacher for classroom procedures, schedules, and daily class news.