NNHS AB Calculus Syllabus

Instructional Coordinator: hphelan@naperville203.org

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 much 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. Department Placement Required.

Course Learning Standards

The learning standards for this course are designated by the College Board:

- Understand the meaning of the derivative in terms of a rate of change and local linear approximation and be able to use derivatives to solve problems.
- Understand the meaning of the definite integral both as a limit of Riemann sums and as the net accumulation of change and should be able to use the integral to solve problems.
- Understand the relationship between the derivative and the definite integral as expressed in the Fundamental Theorem of Calculus.
- Be able to work with functions represented in a variety of ways: graphical, numerical, analytical, and verbal.
- Communicate mathematics and explain solutions to problems both verbally and in written sentences.
- Model a written description of a physical situation with a function, a differential equation, or an integral.
- Use technology to solve problems, experiment, interpret results, and support conclusions.

Grading:

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

Overall Semester grade:

<table>
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<tr>
<th>Semester 1</th>
<th>Semester 2</th>
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<tbody>
<tr>
<td>85% of the Coursework</td>
<td>90% of the Coursework</td>
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<tr>
<td>15% Final Exam</td>
<td>10% Final Exam</td>
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The final semester grade will be rounded to the nearest percentage point.
Course Grade

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

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

Grading Disbursement:

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

Reassessment Policy

Formative Assignments (labs, class work, activities, homework): All late work will be completed as dictated by the Student Handbook.

Summative Assessment Retake Policy (reassessments are only on summative work, excluding final exams):

Students have the option of replacing their lowest quiz score from the unit with their higher test score from the same unit. This request for replacement must be done within 48 hours of receiving their test score.

A cumulative exam will be offered 1st, 2nd, and 3rd quarter. Students have the option of taking the cumulative exam and replacing their lowest test to date (within the semester) with their cumulative exam score.

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.
- Math Help in the Math Help Center room 268 during lunch periods.
- 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 Grading Periods. 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.