**Algebra II Syllabus 2023-2024 School Year (Full Year)**

**Ms. Padilla**

**Office Hours: By Appointment Only**

**973-705-3847**

**Course Meeting Times:**

**Period 1 8:25 - 9:05, Period 2 9:07-9:47 and Period 9 2:00-2:40**

**Kpadilla@nps.k12.nj.us**

**https://nboe.webex.com/meet/kpadilla**

Welcome to a new school year! I am excited to welcome your scholar to my Algebra II course. Our goal is to ensure that students are gathering a conceptual understanding and reaching mastery for the units to come. I will need your support in building your scholars' confidence and allowing them to embark on the journey of using self-discovery within the classroom environment. Studies show allowing students productive struggle with support is a great way to foster an environment for conceptual understanding.

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| **Course & Grade Level** | Algebra II - Grade 11 |
| **Room #** | 424 |
| **Course Description** | Algebra II will be completed over one semester. In this course students will: extend the real number system to the complex number system, solve and interpret solutions to a variety of equations, inequalities, and systems of equations, demonstrate competency graphing and interpreting functions, and extend simple and compound probability calculations to conditional probability. Students will learn about polynomials, quadratic equations, linear and exponential functions, sequences and series, probability and statistics, and trigonometry. Throughout the course, these mathematical concepts are applied to everyday occurrences to demonstrate how the world around us functions. Students investigate the effects of an equation on its graph using technology. Students have opportunities to work with their peers on specific lessons. The Mathematical Practice Standards apply throughout the course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. |
| **Required Materials** | Notebook, Pencil, Sharpener, Eraser, Folder, Graph paper, Loose sleeve paper, and Basic scientific calculator |
| **Policies & Procedures** | All students are required to adhere to Eagle Academy’s policies and procedures which can be found at <https://www.eaglenewark.com>.  Below you can find the class norms and rules. These have been put in place to ensure that students will be successful within the course. Failure to comply will result in a verbal warning, parent/guardian contact and meeting with administration.  Classroom Norms:   1. Welcome mistakes 2. Collaborate with your peers 3. Ask questions 4. Attempt different strategies   Classroom Rules:   1. Give respect to receive respect 2. Follow directions 3. No electronic devices 4. Remain on task |
| **Grading Policy** | **Category Percent of Grade**  Summative Assessments 70%  Formative Assessments 30%  **Summative Assessments** include, but are not limited to the following::  unit tests, performance based assessments, project based assessments, portfolios, essays, mid term and final examinations.  **Formative Assessments**  includes, but are not limited to the following:  Do nows, daily instructional tasks, homework, drafts of essays, quizzes, exit tickets, standards mastery performance tasks, class participation    Gradebook will be updated on Powerschool weekly |
| **Attendance & Tardiness Policy** | Attendance and punctuality are necessary for successful completion of this course. In the event that you have an excused absence it is your responsibility to obtain make-up work and/or reschedule any missed assessments. |
| **Assignments** | Please find the districts Pre-Calculus curriculum below:  <https://docs.google.com/document/d/1eH6InpyAtBNDQEf-81TsCnD5mm7fKG1qvL7n1FPLg_k/edit?usp=drive_web&authuser=0> |
| **Classwork & Homework Policies** | * All assignments must be turned in on time. Late assignments will be accepted under the following conditions: a) the assignment is submitted at the beginning of the next class session, immediately following the due date [10 points will be deducted from the earned grade] **AND** b) the assignment has not been reviewed in class or graded/returned by the teacher. |
| **Course Timeline** | |
| **MP #1:**  **Sept. 8 - Nov. 17** | Unit 1A: Linear Functions and Systems  Unit 1B: Functions  Unit 1C: Quadratic Functions and Equations |
| **MP#2:**  **Nov. 18 - Feb. 4** | Unit 2A: Polynomial Functions  Unit 2B: Radical Functions |
| **MP #3:**  **Feb 5 - Apr. 21** | Unit 3A: Radical Functions  Unit 3B: Exponential and Logarithmic Functions  Unit 3C: Probability and Statistics |
| **MP #4:**  **Apr. 22 - June 28** | Unit 4A: Trigonometric Functions  Unit 4B: Conic Sections  Unit 4C; Matrices |
| **Student Signature** |  |
| **Parent Signature** |  |
| **Incentivize** | Students will receive a 100% for the first HW assignment if this form is signed and returned to class by 9/11. |