North Pointe Prep
Mrs. Brocchini
jbrocchini@PointeSchools.org
2021-22 School Year

Algebra II Syllabus

Course Overview

After establishing essential skills in Algebra I, students in this course will continue to explore the concept of patterns, and real numbers, including their properties, construction, and operations. This course will also focus on both rational and radical expressions, as well as equalities and inequalities, and various functions and their applications. Throughout the course, students will be expected to demonstrate their comprehension of these topics by completing practice problems, quarterly group projects, quizzes, tests, and other activities, as assigned.

Course Responsibilities

Students are expected to be on time and ready to participate in class. Positive and constructive participation includes, but is not limited to the following:

- ✓ Submit course work in a time manner
- ✓ Keep cell phones in backpack (not in pockets)
- ✓ Engage in class activities, group work, projects, and contribute to the larger body of mathematical knowledge
- ✓ Behave in an ethical manner, including:
    - Honest course work submissions
    - Constructive team collaboration
    - Positive attitudes
    - Respectful treatment to all

Make-Up Assignment/Quizzes/Test Policy

Daily Work/Homework- 2 days for each absence to complete missing items (this cannot exceed a week without administrative approval). **Quizzes and Tests** will typically be expected to be made up during tutoring time, unless otherwise discussed/scheduled with Mrs. Brocchini.
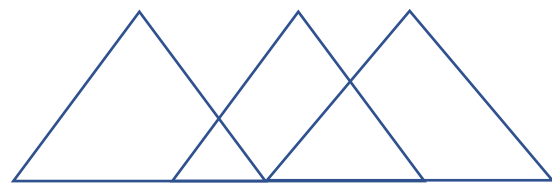
Extra-Credit Policy

Extra credit will be assigned in various forms such as bonus exam questions, extra assignments, submissions format, etc.

Tutoring:

Students are highly encouraged to attend tutoring whenever needed, and can do so on Tuesdays/Thursdays from 2:30-3:30 p.m. If additional days/times are needed, please see Mrs. Brocchini to discuss extended options.
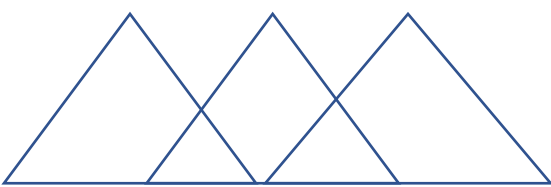
Supplies Needed

- ✓ Large notebook OR binder filled with lined paper
- ✓ Graph paper
- ✓ Pencils and erasers (NO PENS)
- ✓ Box of Colored Pencils
- ✓ Box of Chalk (regular or liquid)
- ✓ Box of Markers and Highlighters

*Other supplies may be needed throughout the year, but there will be ample notice to provide them, or they will be volunteer based donations.

Course Requirements and Grading

- Daily Work/Homework = **10 Points**
  - ➢ Students will be assigned daily work during class, after the bell ringer and content lecture. Homework will typically be whatever work students could not finish in class, or as assigned. To be considered on time, it will be due the following day, by the end of school (2:30pm OR 3:30pm if student comes to tutoring). Late work will be accepted until the end of the week, for ½ credit.
- Quizzes/Tests = **20 Points Quizzes/100 Points Tests**
  - ➢ Quizzes will be assigned every Friday (tentatively). Tests will follow units of study.
- Projects = **50 Points**
  - ➢ There will be quarterly projects (group and individual). Late projects will be accepted up to TWO WEEKS after the deadline, for ½ credit. If students need additional time, they may speak to Mrs. Brocchini for advisement.
- Participation = **5 Points**
  - ➢ To earn participation, students will be expected to keep a notebook or binder for bell ringers AND class notes. Students should expect for their notebook or binder to be checked daily and weekly. In addition to the notebook checks, students will be expected to participate in class activities as well.

Course Outline/Topics

Semester 1	Semester 2
Expressions, Equations, and Inequalities	Rational Functions
Functions, Equations, and Graphs	Sequences and Series
Linear Systems	Quadratic Relations and Conic Sections
Quadratic Functions and Equations	Probability and Statistics
Polynomials & Polynomial Functions	Matrices
Radical Functions and Rational Exponents	Periodic Functions and Trigonometry
Exponential and Logarithmic Functions	Trigonometric Identities and Equations