

Algebra 2 Syllabus  
School District #622 North High School

**Available to:** Grades 10-12

**Prerequisite:** Geometry A, B, and C

Full Year Course, 3 required mathematics credits

**Standards Met:** MN Academic Standards in Mathematics

**Course Description:**

This course will focus on the development of advanced algebraic skills with linear, absolute value, exponential, logarithmic, and quadratic functions. Functions will be studied from graphic, numeric, symbolic, and verbal viewpoints. This course will also cover introductory statistics and data analysis.

**Curriculum:**

- $\pi$  The understanding of various patterns, relations, and functions improves critical thinking skills.
- $\pi$  Mathematical situations and structures can be analyzed using multiple representations.
- $\pi$  Mathematical models represent relationships among data in various contexts.
- $\pi$  Data can be used to form and verify conclusions.
- $\pi$  Probability concepts can be used to make decisions.

**Course Outline:**

- Trimester A:** Chapter 1 Equations and Inequalities  
Chapter 2 Linear Equations and Functions  
Chapter 3 Linear Systems and Matrices  
Chapter 4 Quadratic Functions and Factoring
- Trimester B:** Chapter 5 Polynomials and Polynomial Functions  
Chapter 6 Rational Exponents and Radical Functions  
Chapter 7 Exponential and Logarithmic Functions
- Trimester C:** Chapter 10 Counting Methods and Probability  
Chapter 11 Data Analysis and Statistics  
Chapter 13 Trigonometric Ratios and Functions  
Extension Voting Methods

**Required Materials:**

- ✓ Notebook or loose leaf paper
- ✓ Folder
- ✓ Calculator
- ✓ Pencils
- ✓ 3 packs index cards (one per trimester)
- ✓ \_\_\_\_\_ (to share with class)

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**Course Requirements:**

- Students are expected to follow all school and math department rules. The tardy policy will be enforced. When a student is tardy five times they receive a detention to be served with the teacher. If a student fails to serve detention, they are assigned a Wednesday school. If a student is tardy more than five times, they will be assigned a Wednesday school.
- Food, beverages, electronics, cell phones, and hats are not allowed in class.
- Students are expected to be in class, prepared and actively participating every day. This includes bringing all needed materials to class: textbook, notebook/paper, pencils, and a TI-83 graphing calculator.
- Activities and homework will be assigned daily. Unexcused late homework will receive partial credit and must be turned in before the Chapter test. If you have an excused absence, it is your responsibility to complete missing work within two days to receive full credit.
- Quizzes and test will include calculator and non-calculator portions. If you miss a quiz or test, a makeup that covers the same material will be available. Tests and quizzes must be made up within one week and can be taken either before or after school, but not during class. All students will take tests and quizzes at the announced time unless they have been absent for two or more consecutive days prior to the test or quiz.

**Grading Procedures:**

Your grade will be based on the following:

30% Daily work (homework and classroom activities)

60% Tests, Quizzes and Projects

10% Final Exam

Grades will be posted on Campus and updated as directed by district policy. Use the Parent Portal to access your grade report regularly.

**Contact Information:**

Teacher: Jennifer George      School Telephone Number: (651) 748-6189

School E-Mail Address: [JGeorge@isd622.org](mailto:JGeorge@isd622.org)

Webpage: <http://www.northhighschool.webaloo.com/msgeorge.aspx>

Textbook Webpage: [www.classzone.com](http://www.classzone.com)

Parent Portal: <https://campus.isd622.org/campus/portal/nsp.jsp>

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*Please complete and return this portion of the syllabus before Friday, September 5<sup>th</sup>.*

We have reviewed the course syllabus for Algebra 2 above, noting policies on grading, calculator need, and Campus progress reports on the Parent Portal.

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Printed Student Name

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Parent/Guardian Signature

Date

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Student Signature

Date