

ALGEBRA II

MAT 311/312

Mrs. Helen Lindahl

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 every morning and after school

Course description*

This course develops the algebraic concepts from Algebra I in greater depth. Emphasis is placed on basic operations associated with the real number system, polynomials and their various operations, graphs of linear equations, equalities and inequalities, matrices, quadratic functions, exponents and exponential functions. This course also develops the properties and concepts essential to Trigonometry.

Credit weight*

College Prep

[Link to published core curriculum map*](#)

Priority Standards*

	<u>Analyze functions using different representations</u>
<u>Write expressions in equivalent forms to solve problems</u>	<u>Build a function that models a relationship between two quantities</u>
<u>Perform arithmetic operations on polynomials</u>	<u>Construct and compare linear, quadratic, and exponential models and solve problems</u>
<u>Understand the relationship between zeros and factors of polynomials</u>	<u>Extend the properties of exponents to rational exponents</u>
<u>Use polynomial identities to solve problems</u>	<u>Perform arithmetic operations with complex numbers.</u>
<u>Rewrite rational expressions</u>	<u>Use complex numbers in polynomial identities and equations.</u>
<u>Create equations that describe numbers or relationships</u>	<u>Summarize, represent, and interpret data on a single count or measurement variable</u>
<u>Understand solving equations as a process of reasoning and explain the reasoning</u>	<u>Make inferences and justify conclusions from sample surveys, experiments, and observational studies</u>
<u>Represent and solve equations and inequalities graphically</u>	<u>Understand independence and conditional probability and use them to interpret data</u>
<u>Interpret functions that arise in applications in terms of the context</u>	

Grading Categories*

(Common for all instructors of this course)

Category Percent Weights*

(Common for all instructors of this course)

Unit Assessments (Common for all instructors of this course)

Leyden High School D212 Common Grading Scale*: 90 - 100 A; 80-89 B; 70 - 79 C; 60 - 69 D; Below 60- F

Grades in this class will be updated **weekly** (minimum) and are available via the [eSchool Home Access Center](#)
