

Highschool A La Carte Schedule:

Code	Course Title	Grade Levels	Day	Times	Term	Dates*	Price
MA1	Algebra I Semester I Teacher: Michelle Grasso	Highschool	WF	8:30- 9:30	I & II	Sep 6- Dec 18	\$600
MA2	Algebra I Semester II Teacher: Michelle Grasso	Highschool	WF	8:30- 9:30	III & IV	Jan 10- May 30	\$600
MA3	Geometry Semester I Teacher: Michelle Grasso	Highschool	WF	10- 11	I & II	Sep 6- Dec 18	\$600
MA4	Geometry Semester II Teacher: Michelle Grasso	Highschool	WF	10- 11	III & IV	Jan 10- May 30	\$600
MA5	Algebra II Semester I Teacher: Michelle Grasso	Highschool	WF	12:30- 1:30	I & II	Sep 6- Dec 18	\$600
MA6	Algebra II Semester II Teacher: Michelle Grasso	Highschool	WF	12:30- 1:30	III & IV	Jan 10- May 30	\$600
MA7	PreCalculus Semester I Teacher: Michelle Grasso	Highschool	WF	2:00 - 3:00	I & II	Sep 6- Dec 18	\$600
MA8	PreCalculus Semester II Teacher: Michelle Grasso	Highschool	WF	2:00 - 3:00	III & IV	Jan 10- May 30	\$600

High School A La Carte Course Descriptions:

Code	Course Descriptions	Course Description
MA1	Algebra I Semester I Teacher: Michelle Grasso	Students will build a strong foundation in algebra by exploring the fundamentals of algebra, including expressions, variables, and the order of operations. They will dive into the properties of real numbers and learn to solve linear equations and inequalities. Additionally, students will be introduced to functions, focusing on understanding their definitions, graphing linear functions, and using function notation. Starting with systems of equations and inequalities, students will learn to solve and graph systems of linear equations, applying these techniques to real- world problems.
MA2	Algebra I Semester II Teacher: Michelle Grasso	The semester will cover polynomials, including operations, factoring, and solving polynomial equations. Additionally, students will explore quadratic functions and equations, learning to graph quadratic functions and solve quadratic equations using various methods. Students will advance to learn how to simplify and solve both rational and radical expression. The semester will include an introduction to

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		data analysis and probability, where students will learn basic statistical measures such as mean, median, and mode, as well as fundamental probability concepts. Finally, students will explore exponential functions, understanding and applying exponential growth and decay, and solving exponential equations.
MA3	Geometry Semester I Teacher: Michelle Grasso	Students will be introduced to the basics of geometry, laying a strong foundation for further study. They will begin by exploring fundamental concepts such as points, lines, planes, and angles. Students will learn about the properties and relations of different types of angles and lines, including parallel and perpendicular lines. Students will study the properties of various geometric shapes as well as important properties such as congruence and similarity. The term will also cover circles, including the properties of arcs, chords, tangents, and secants, as well as angle measures and segment lengths in circles.
MA4	Geometry Semester II Teacher: Michelle Grasso	Students will learn about surface area and volume, focusing on three-dimensional figures and explore transformations and symmetry. Students will learn to graph and analyze geometric figures on the coordinate plane, applying algebraic methods to solve geometric problems. The term will also cover geometric proofs, emphasizing the importance of logical reasoning and the structure of formal proofs. Additionally, the term will include geometric constructions, where students will use tools such as compasses and straightedges to construct geometric figures accurately.
MA5	Algebra II Semester I Teacher: Michelle Grasso	The term begins with an exploration of complex numbers, including their properties and operations, and their applications in solving quadratic equations. Students will then study polynomial functions and rational functions, learning how to manipulate and solve them. Students will begin with exponential and logarithmic functions, exploring their properties, graphs, and applications. Students will also learn about sequences and series, including arithmetic and geometric sequences, and the summation of series.
MA6	Algebra II Semester II Teacher: Michelle Grasso	In Semester II, Trigonometric functions will be introduced, covering the basics of trigonometric ratios, the unit circle, and graphing trigonometric functions. Students will then study complex numbers in more detail, focusing on their representation in the complex plane and operations involving complex conjugates. The semester will also cover matrices, including matrix operations, determinants, and their applications in solving systems of linear equations. Conic sections will be explored, including the

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		properties and equations of parabolas, ellipses, and hyperbolas. Finally, probability and statistics are introduced.
MA7	PreCalculus Semester II Teacher: Michelle Grasso	Students will start with an in-depth study of functions and their graphs, focusing on different types of functions such as linear, quadratic, polynomial, and rational functions. Students will learn about the characteristics of these functions, including domain and range, intercepts, and asymptotes. Additionally, the term will cover exponential and logarithmic functions, where students will explore their properties, transformations, and applications, including exponential growth and decay. Students will study trigonometric functions, focusing on their definitions, properties, and graphs. This includes an exploration of the unit circle, trigonometric identities, and inverse trigonometric functions.
MA8	PreCalculus Semester I	Students will learn about the properties and operations of vectors and matrices. Additionally, students will explore complex numbers in greater detail, focusing on their representation in the polar form and operations involving complex conjugates. Students will continue the study of conic sections, including the properties and equations of parabolas, ellipses, and hyperbolas. Students will also explore sequences and series, focusing on arithmetic and geometric sequences, summation notation, and the concepts of convergence and divergence. Finally, students will be introduced to limits, continuity, derivatives, and integrals, providing a foundational understanding of these concepts as a precursor to calculus.

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