STEM - Math Endorsement

You must take the following three courses:

Algebra I	Geometry	Algebra 2
In high school Algebra I, students deepen their	High school students should develop facility	In Algebra II, students have opportunities to
understanding of relations and functions and	with a broad range of ways of representing	build on Algebra I and Geometry experiences,
expand their repertoire of familiar functions.	geometric ideas—including coordinates,	both deepening their understanding of
Students use technological tools to represent	networks and transformations. Students	relations and functions and expanding their
and study the behavior of linear and quadratic	should recognize connections among different	repertoire of familiar functions. Students use
functions, among others. They learn to combine	representations, thus enabling them to use	technological tools to represent and study the
functions, express them in equivalent forms,	these representations flexibly. Students will	behavior of polynomial, exponential, rational,
compose them, and find inverses where	expand their understanding through other	and periodic functions, among others. They
possible. Algebra I also provides students with	mathematical experiences through the	learn to combine functions, express them in
insights through the content strands of linear	Geometry content strands of Geometric	equivalent forms, compose them, and find
functions, equations, and inequalities, quadratic	Structure, Patterns, Dimensionality and	inverses where possible. As they do so, they
functions and equations, exponential functions	Geometry of Location, Congruence and the	come to understand the concept of a class of
and equations, and number and algebraic	Geometry of Size, and Similarity and the	functions and learn to recognize the
methods.	Geometry of Shape.	characteristics of various classes.

You must also take at least TWO courses from the following list.

AQR	Pre-Calculus	AP Statistics	AP Calculus AB
Advanced Quantitative Reasoning includes the analysis of information using statistical methods and probability, modeling change and mathematical relationships, and spatial and geometric modeling for mathematical reasoning. Students learn to become critical consumers of real-world quantitative data, knowledgeable problem solvers who use logical reasoning, and mathematical thinkers who can use their quantitative skills to solve authentic problems.	Students use symbolic reasoning and analytical methods to represent mathematical situations, to express generalizations, and to study mathematical concepts and the relationships among them. Students use functions, equations, and limits as tools for expressing generalizations and as means for analyzing and understanding a broad variety of mathematical relationships. Students also use functions and symbolic reasoning to represent and connect ideas in geometry, probability, statistics, trigonometry, and calculus and to model physical situations.	Students are introduced to major concepts and tools for collecting, analyzing, and drawing conclusions from data. This course prepares students for the College Board AP Statistics Examination for possible college (one-semester, non-calculus based statistics) credit. For Advanced Placement courses, please access more information on the Internet at the web address http://apcentral.collegeboard.com/.	Students explore functions, graphs, limits, derivatives, and integrals. This course prepares students for the College Board AP Calculus AB Examination for possible college credit (1 st semester calculus). For Advanced Placement courses, please access more information on the Internet at the web address http://apcentral.collegeboard.com/.