

CNEC Math Department – Course Descriptions for 2019-2020

	Course Name	Course Description and Notes	Course Prerequisites
Granite Ridge Intermediate	Math 7 or Math 7 with Strategies	Math 7 focuses on four critical areas: 1. Developing understanding of and applying proportional relationships. 2. Developing understanding of operations with rational numbers and working with expressions and linear equations. 3. Solving problems involving scale drawings and informal geometric constructions and working with two and three dimensional shapes to solve problems involving area, surface area, and volume. 4. Drawing inferences about populations based on samples.	
	Advanced Math 7	This is an accelerated Math 7 course which also covers Math 8 standards.	5 th grade SBAC Scores 7 th grade Math Placement Test Scores CNEC Math Department Rubric
	Math 8 or Math 8 with Strategies	Math 8 focuses on three critical areas: 1. Formulating and reasoning about expressions and equations, including modeling an association in bivariate data with a linear equation, and solving linear equations and systems of linear equations. 2. Grasping the concept of a function and using functions to describe quantitative relationships. 3. Analyzing two- and three-dimensional space and figures using distance, angle, similarity, and congruence and understanding and applying the Pythagorean Theorem.	Successful completion of Math 7
	Advanced Math 8	This is an accelerated Math 8 course which also covers Math 1 standards.	80% or higher final semester grade in Advanced Math 7
Clovis North High School	Math 1 (P) or Math 1 w/ Tutorial	The fundamental purpose of the Mathematics I course is to formalize and extend the mathematics that students learned in the middle grades. This course includes standards from the conceptual categories of Number and Quantity, Algebra, Functions, Geometry, and Statistics and Probability.	70% or higher in Math 8
	Math 2 (P)	The focus of the Mathematics II course is on quadratic expressions, equations, and functions; comparing their characteristics and behavior to those of linear and exponential relationships from Mathematics I. This course includes standards from the conceptual categories of Number and Quantity, Algebra, Functions, Geometry, and Statistics and Probability.	70% or higher in Adv. Math 8 70% or higher in Math 1
	Honors Math 2 (P)	Accelerated Math 2 Course	Placement Exam
	Math 3 (P)	The focus of Mathematics III will focus on five key areas: 1. Extending the use of statistics with identifying different ways of collecting data and the conclusions that can be drawn. 2. Applying operations to polynomial functions 3. Solving polynomial, rational, radical and trigonometric functions algebraically and graphically. 4. Extending work with function families and the effects on transformations on them. 5. Modeling and solving real world problems that require the use of polynomial, rational, radical, and trigonometric functions.	70% or higher in Math 2 70-79% in Honors Math 2

Honors Math 3 (P)	Accelerated Math 3 Course	80% or higher in Honors Math 2
Foundations of Math 2	This course is primarily for 11 th -12 th grade students who desire to learn the basic concepts of Math 2.	N/A
Statistics and Probability AB (P)	Statistics and Probability provides college bound students with an introduction to the essential basics of statistical analysis and the theory of probability. This course will include applications to the fields of social science, psychology, education, business and medicine. Topics include: descriptive statistics, measures of central tendency and dispersion, correlation and regression analysis, probabilities of compound events, normal distribution and inferential statistics.	70% or higher in Math 3
Advanced Math (P)	Advanced Mathematics provides a formal study of trigonometry and exposure to selected topics which provide a foundation for the first course in calculus. Scientific calculators will be used extensively. Topics include: vectors, the theory of equations, functions and limits.	75% or higher in Math 3 83% or higher in Statistics 80% in AP Statistics
AP Statistics (HP)	AP Statistics covers the syllabus necessary for students to successfully pass the national or international exam in May for college credit. This is a highly rigorous course in descriptive statistics, inferential statistics, probability and experimental design.	90% or higher in Math 3 & taken w/Advanced Math 90% or higher in Statistics
AP Calculus AB (HP)	AP calculus AB covers the material necessary for students to successfully pass the national or international exam in May for college credit. Topics include limits, continuity, derivatives and their applications, methods of integration and their application.	80% or higher in Honors Math 3 80% or higher in Advanced Math
AP Calculus BC (HP)	AP Calculus BC covers the syllabus necessary for students to successfully pass the national or international exam in May for college credit. Topics include: limits, integrals, sequences, series, vectors, parametric equations and differential equations	92.5% or higher in Honors Math 3 85% or higher in AP Calculus AB