

# MATH DEPARTMENT

<b>COMPETENCY MATH</b>	REQUIRED ( ) ELECTIVE (X)	CSU ( ) UC ( )	LAB FEE: None
PREREQUISITES: Open to students who have not passed District Math Competency test.			
This course is designed to help the student overcome deficiencies in the basic operations with whole numbers, mixed numbers and common fractions. Percentage problems, basic units of measure, and consumer arithmetic will be studied.			
GRADE: 12		LENGTH: 1 Semester	
<b>ALGEBRA I</b>	REQUIRED (X) ELECTIVE ( )	CSU (X) UC (X)	LAB FEE: None
PREREQUISITES: None			
This course covers all of the Algebra Standards including graphing, linear, and quadratic equations, exponents, radicals, polynomials, factoring and rational expressions. Honors level is also offered.			
GRADES: 9, 10, 11, 12		LENGTH: 1 Year	
<b>ALGEBRA I-A 1 &amp; 2</b>	REQUIRED (X) ELECTIVE ( )	CSU ( ) UC ( )	LAB FEE: None
PREREQUISITES: Math A with a C or better or placement on Algebra Readiness Test			
This course will cover the first topics of a regular Algebra I course. This will include the study of the language of Algebra as needed for scientific and mathematical communication in a variety of career fields. Emphasis will be placed on problem solving techniques and clearly organized logical presentation of work developed including graphing, linear equations and inequalities, exponents and systems of linear equations and inequalities.			
GRADES: 9, 10, 11, 12		LENGTH: 1 Year	

<b>ALGEBRA IB 1 &amp; 2</b>	REQUIRED ( ) ELECTIVE (X)	CSU (X) UC (X)	LAB FEE: None
PREREQUISITES: Algebra IA-2 with C or better			
This is the second year of the two-year Algebra course. This course covers all of the Algebra standards with emphasis on quadratic equations, exponents, radicals and rational expressions.			
GRADES: 10, 11, 12		LENGTH: 1 Year	
<b>FOUNDATIONS OF ALGEBRA &amp; GEOMETRY I</b>	REQUIRED ( ) ELECTIVE (X)	CSU ( ) UC ( )	LAB FEE: None
PREREQUISITES: Completion of 1 year of mathematics.			
This course is designed to help the student overcome deficiencies indicated in the CAHSEE (California High School Exit Examination) results.			
GRADES: 10, 11		LENGTH: 1 semester	
<b>GEOMETRY</b>	REQUIRED ( ) ELECTIVE (X)	CSU (X) UC (X)	LAB FEE: None
PREREQUISITES: Algebra I with a grade of C or better			
This course covers plane geometry with emphasis on deductive reasoning. Proportions and relations of lines, angles, planes, polygons, congruent figures, similar figures, circles, and coordinate systems will be explored. Honors level is also offered.			
GRADES: 9, 10, 11, 12		LENGTH: 1 Year	
<b>ALGEBRA II</b>	REQUIRED ( ) ELECTIVE (X)	CSU (X) UC (X)	LAB FEE: None
PREREQUISITES: C or better in Algebra I (Geometry Recommended)			
Expands and advances the fundamental principle of beginning algebra. Units covered include work with exponents, radicals, vectors, rectangular and polar coordinates, systems of equations, and applications in the areas of chemistry and physics. Honors level is also offered.			
GRADES: 9, 10, 11, 12		LENGTH: 1 Year	

<b>PRE-CALCULUS</b>	REQUIRED ( ) ELECTIVE (X)	CSU (X) UC (X)	LAB FEE: None
PREREQUISITES: Algebra II and Geometry			
A combined course in analytical geometry and trigonometry. Linear relations, functions, theory of equations, matrices, vectors, exponential and logarithmic functions, sines and cosines, polar coordinates, and the basic concepts of limits are included. Honors level is also offered.			
GRADES: 11, 12		LENGTH: 1 Year	
<b>CALCULUS AP</b>	REQUIRED ( ) ELECTIVE (X)	CSU (X) UC (X)	LAB FEE: None
PREREQUISITES: Pre-Calculus			
A course in differential and integral calculus. Elementary functions, limits, graphs, derivatives, applications of the derivatives, antiderivatives, techniques of integration, definite integral and applications. A student passing the AP exam will earn college credit at most colleges.			
GRADE: 12		LENGTH: 1 Year	
<b>MATHEMATICS ELECTIVE</b>	REQUIRED ( ) ELECTIVE (X)	CSU ( ) UC ( )	LAB FEE: None
PREREQUISITES: Placement on Algebra Readiness Test			
This course offers elective credit for students who will benefit from a second concurrent section to be successful in the Algebra course requirement.			
GRADES: 9, 10		LENGTH: 1 Year	