The math and quantitative reasoning levels include many pathways, so no single course will meet all outcomes. Some courses may contain multiple levels, so select the level that contains the outcomes that best represent the level at which the student completes the course (not enters the course). That is, upon completion of this course, the student will be able to:

Mathematics and	Quantitative and	Number Sense and	Geometry,	Algebraic and Critical	Data Analysis,		
Quantitative	Mathematical Practices	Operations, Solving	Measurement,	Thinking, Applications	Statistics		
Reasoning		Equations	Graphing				
CB21 A or Level 6-Secondary (1 level below transfer)							
CB21A	Demonstrate quantitative	Solve a variety of	Create, analyze and	Apply algebra skills to a	Calculate and interpret		
	reasoning using units,	nonlinear equations	interpret graphs of	variety of applications	measures of central		
Based on previous	precise definitions,	such as logarithmic,	linear and non-linear	such as:	tendency.		
CB21A outcomes and	mathematical terms and	inverse, quadratic,	relations.	growth and decay,			
the EFLs.	notation.	absolute value,		logical reasoning,	Discuss the		
		rational, and radical.	Solve problems	geometry,	implications of data		
	Create algebraic and		involving similarity	optimization, and	collection,		
	geometric models to	Demonstrate an	and congruence	quadratic functions with	experimental design,		
	solve mathematical	understanding of the	criteria for triangles.	applications in areas such	correlation vs.		
	problems, interpret data,	set of irrational		as motion, mixture, and	causation and ethics		
	make inferences, and	numbers (radicals and	Use volume formulas	work.	when conducting a		
	determine the	rational exponents),	for cylinders,		statistical study.		
	reasonableness of the	real numbers, and	pyramids, cones, and	Manipulate polynomial,			
	results.	complex numbers.	spheres to solve	rational, and exponential	Summarize, represent,		
			problems.	expressions.	and interpret data		
		Demonstrate an			based on two		
		understanding of	Use formal arguments	Use equations/inequalities	categorical and		
		consequences and propagation of	to support conjectures and theorems.	to solve problems both algebraically and	quantitative variables.		
		rounding errors.		graphically.	Compare data sets by		
					looking at		
				Construct, graph,	commonalities,		
				compare, and interpret	differences, and		
				functions and relations in	measures in shape,		
				linear, quadratic, and	center, and spread.		
				exponential, logarithmic,			
				and conic section forms.	Identify possible		
					associations and trends		
					in data, particularly in		
					linear models.		

CB21 B or Level 5-High Intermediate (2 levels below transfer)						
CB21B	Define and manipulate	Solve any linear	Plot points and graph	Use algebraic and	Apply elementary	
	linear expressions and	equation, a variety of	linear equations on a	graphical representations	concepts of	
Based on previous	polynomials.	2-variable linear	Cartesian coordinate	to solve contextualized	random sampling to	
CB21B outcomes and		equations (systems)	system.	mathematical problems,	make observations	
the EFLs.	Demonstrate critical	and factorable		involving linear equations,	about a single	
	thinking by using an	quadratic equations.	Solve contextualized	inequalities, systems of	population and two	
	efficient strategy for		mathematical problems	two linear equations in	populations using the	
	solving multi-step	Solve contextualized	that involve volume	two variables, and	ideas of mean, median,	
	problems.	mathematical	and surface area of 3-	interpret the solution(s) in	mode, and variability.	
		problems that involve	dimensional geometric	the context of the		
	Create algebraic and	factoring polynomials.	figures.	problem.		
	geometric models to					
	solve problems.	Apply ratio and	Use informal			
		percent concepts,	arguments to support			
		including rates and	conjectures and			
		proportional	theorems on angle			
		relationships to solve	relationships.			
		multi-step problems.				
			Use the Pythagorean			
			theorem to determine			
			distance in the			
			coordinate plane and in			
			applications.			

CB21 C or Level 4-Middle Intermediate (3 levels below transfer)						
CB21C	Define and manipulate	Solve simple linear	Graph solutions to	Apply a known formula to	Summarize and	
	signed numbers and	equations in one	linear equations and	a given situation.	describe numerical	
Based on previous	variables.	variable.	inequalities in one		data sets in relation to	
CB21C outcomes and			variable on the number	Explain connections	their context, including	
the EFLs.	Demonstrate critical	Use the number line	line.	among proportional	determining basic	
	thinking in solving	and the rectangular		relationships, lines, and	measures of center and	
	multi-step problems,	coordinate system	Solve contextualized	linear equations.	spread.	
	using mathematical	appropriately.	mathematical problems			
	terms and notation		that involve angle	Describe numerical and	Describe patterns and	
	appropriately.	Apply the concept of	measure,	formulaic expressions and	unusual deviations	
		absolute value to find	circumference, and	equations, then use them	from patterns.	
	Calculate accurately and	horizontal and vertical	area of 2-dimensional	to solve contextualized		
	use estimation strategies	distances.	figures.	mathematical problems.	Explain and apply the	
	to assess the				concept of probability	
	reasonableness of results.	Apply the properties of	Explain congruence		at the introductory	
		integer exponents, and	and similarity with		level.	
		evaluate, estimate, and	respect to 2-			
		compare simple square	dimensional figures.			
		roots and cube roots.				
			Use the Pythagorean			
		Demonstrate an	theorem (triples) to			
		understanding of ratio,	determine missing			
		rate, percent concepts,	lengths in right			
		and proportional	triangles.			
		relationships.				

CB 21 D or Level 3-Low Intermediate (4 levels below transfer)						
CB21D	Define and manipulate	Introduce concepts and	Demonstrate a basic	Apply the correct	Describe simple data	
	rational numbers.	symbols of equality	understanding of the	operation to a given	sets using concepts as	
Based on previous		and inequality.	number line and	situation.	center, spread, and the	
CB21D outcomes and	Solve multi-step		coordinate plane, and		overall shape of a	
the EFLs.	contextualized	Clarify and perform	plot points (i.e.,	Convert arithmetic	distribution of data.	
	mathematical problems,	calculations using all	ordered pairs) and	expressions to algebraic		
	explain the work, and	four operations on	place polygons in the	expressions using a	Present data sets	
	use correct units.	multi-digit whole	coordinate plane to	symbol to represent an	graphically.	
		numbers and decimals:	solve problems.	unknown value.		
	Use diagrams or sketches	place value, read,				
	and identify multiple	write, count, compare,	Use formulas to	Write a simple inequality		
	strategies for solving a problem.	round.	determine the area of two-dimensional	that represents a constraint or condition.		
		Demonstrate an	shapes such as			
		understanding of	triangles and			
		common factors,	quadrilaterals.			
		common multiples in				
		determining equivalent	Determine the surface			
		fractions and	area of three-			
		comparing fractions.	dimensional shapes			
			composed of			
		Use concepts in ratio	rectangles and			
		to describe the	triangles, and find the			
		relationship between	volume of right			
		two quantities and the	rectangular prisms.			
		unit rate associated				
		with a ratio.	Solve measurement			
			word problems (such			
		Explain ordering of a	as those that involve			
		full set of rational	area, perimeter,			
		numbers, including	distance, time			
		both negative and	intervals, liquid			
		positive fractions.	volumes, mass, and			
			money) that involve			
			simple fractions or			
			decimals.			

		inning Basic (5 levels bel		t used for credit courses)	
CB21E	Use diagrams or sketches	Demonstrate an	Partition shapes into	Solve for the unknown	Solve one- and two-
	to model mathematical	understanding of	parts with equal areas	number in equations	step problems using
Based on EFLs.	problems.	three-digit whole	and describe each part	consisting of	scaled bar graphs.
		numbers: place value,	as a fraction of the	multiplication or division.	
	Explain processes and	read, write, count,	whole.		Generate measurement
	results using	compare, round.			data by measuring
	mathematical terms and		Solve problems		lengths to the nearest
	symbols appropriately.	Solve one and two step	involving U.S.		half- and quarter-inch,
		application problems	Customary and metric		and display that data
	Identify patterns and	using the four	units for measurement		by making a line plot
	structure in sets of	operations on three-	and estimation of		marked off in
	numbers, including in	digit whole numbers.	intervals of time,		appropriate units.
	multiplication or addition		liquid volumes, and		
	tables.	Describe simple	masses of objects.		
		factions: unit fractions,			
		representation on a	Describe the concept		
		number line,	of and solve problems		
		equivalent fractions,	involving area and		
		comparing fractions	perimeter in relation to		
		with same numerator	addition and		
		or denominator.	multiplication.		
		ning Literacy (6 levels be		not used for credit courses)	
CB21F	Solve simple	Demonstrate an	Describe or draw 2-	Solve addition and	Organize, represent,
	contextualized	understanding of two-	dimensional and 3-	subtraction problems.	and interpret simple
Based on EFLs.	mathematical problems.	digit whole numbers:	dimensional shapes		data sets.
		place value, read,	based on attributes,	Solve for the unknown	
	Identify patterns and	write, count, compare,	such as shape, size,	number in equations	
	structure in sets of	round.	orientation, number of	consisting of addition or	
	numbers and geometric		sides and/or vertices	subtraction.	
	shapes.	Solve one and two step	(angles), or the lengths		
		application problems	of sides.		
		using the four			
		operations on two-	Create composite		
		digit whole numbers.	shapes from typical		
			two-dimensional		
			shapes.		