Unit 1					
Limits and Continuity					
Duration	3 weeks		Assessed		
	LO 1.1A(a)	Express limits symbolically using correct notation.			
	LO 1.1A(b)	Interpret limits expressed symbolically.			
	LO 1.1 B:	Estimate limits of functions.			
Priority Standard(s)	LO 1.1 C	Determine limits of functions.			
	LO 1.1 D	Deduce and interpret behavior of funcitons using limits			
	LO 1.2 A	Analyze functions for intervals of continuity or points of discontinuity.			
	LO 1.2 B	Determine the applicability of important calculus theorems using continuity.			
	A2.BF.A.1	Perform operations on functions, including the composition of functions numerically, graphically, and analytically.			
Supporting Standard(s)	A2.APR.A.5	Understand what it means for a function to be discontinuous and classify discontinuities as removable (point) or non-removable (jump or infinite).			
	A2.IF.A.1	Identify vertical asymptotes, horizontal asymptotes, and removable discontinuities of a rational function. Graph rational functions including horizontal and vertical asymptotes, x and y intercepts, and removable discontinuities			

Unit 2			
Derivatives			
Duration	4-6 weeks		Assessed
	LO 2.1 A	Identify the derivative of a function as the limit of a difference quotient	!
	LO 2.1 B	Estimate the derivative.	!
	LO 2.1 C	Calculate derivatives.	!
	LO 2.1 D	Determine higher order derivatives	!
Priority Standard(s)	LO 2.2 A	Use derivatives to analyze properties of a function.	!
	LO 2.2 B	Recognize the connection between differentiabilityand continuity.	
	LO 2.3 A	Interpret the meaning of a derivative within a problem.	
	LO 2.3 B	Solve problems involving the slope of a tangent line.	
	LO 2.3 C	Solve problems involving related rates, optimization, rectilinear motion, (BC) and planar motion.	
<u> </u>		Rewrite a radical function using rational exponents.	
Supporting Standard(s)		Factor polynomials and find the zeros of a polynomial function.	
		Graph a rational function and determine characteristics such as vertical and horizontal asymptotes and x and y-intercepts	

		Unit 3	
		Existence Theorems	
Duration	2 weeks		Assessed
Priority Standard(s)	LO 2.4A	Apply the Mean Value Theorem to describe the behavior of a function over an interval.	
Supporting Standard(s)	LO 1.2 B	Determine the applicability of important calculus theorems using continuity.	

	Unit 4					
	Using Derivatives to Analyze Functions					
Duration	3 weeks		Assessed			
	LO 1.1 C	Determine limits of functions. (L'Hospital's rule)				
Priority Standard(s)	LO 1.1 D	Deduce and interpret behavior of functions using limits.				
Thomas Grandara(3)	LO 1.2 B	Determine the applicability of important calculus theorems using continuity.				
	LO 2.2 A	Use derivatives to analyze properties of a function.				
Supporting Standard(s)	LO 1.1 C	Determine limits of functions.				
	LO 1.2 A	Analyze functions for intervals of continuity or points of discontinuity.				

Unit 5 Applications of Derivatives			
			Duration
	LO 2.3 D	Solve problems involving rates of change in applied contexts.	
Priority Standard(s)	LO 2.3 C	Solve problems involving related rates, optimization and rectilinear motion.	
	LO 2.3 A	Interpret the meaning of a derivative within a problem.	
Supporting Standard(s)	LO 2.1 C	Calculate derivatives.	
	EK 2.1 C5	Use the chain rule as the basis for implicit differentiation.	

Unit 6			
	Accumulations and Riemann Sums		
Duration	4 weeks		Assessed
	LO 3.2 B	Appoximate a definite integral	
Priority Standard(s)	LO 3.2 A (b)	Express the limit of a Reimann sum in integral notation.	
Priority Standard(s)	LO 3.2 A (a)	Interpret the definite integral as the limit of a Reimann Sum	
	LO 3.2 C	Calculate a definite integral using areas and properties of definite integrals.	
	LO 1.1 A (a)	Express limits symbolically using correct notation.	
Supporting Standard(s)	LO 1.1 A (b)	Interpret limits expressed symbolically.	
		Calculate the area formulas for rectangles and trapezoids.	

	Unit 7					
	Antiderivatives and the Fundamental Theorem of Calculus					
Duration	4-5 weeks		Assessed			
	LO 3.1 A	Recognize antiderivatives of basic functions.				
	LO 3.3 B (a)	Calculate antiderivatives.				
	LO 3.3 B (b)	Evaluate definite integrals.				
Priority Standard(s)	LO 3.3 A	Analyze functions defined by an integral.				
	LO 3.5 A	Interpret the meaning of a definite integral within a problem.				
	LO 3.4 B	Apply definite integrals to problems invovling the average value of a function.				
	LO 3.5 B	Interpret, create and solve differential equations from problems in context.				
	LO 2.2 A	Use derivatives to analyze properties of a function.				
Supporting Standard(s)	LO 2.3 E	Verify solutions to differential equations.				
Supporting Standard(0)	LO 2.3 F	Estimate solutions to differential equations.				
	LO 3.2 C	Approximate a definite integral.				

Unit 8 Applications of Definite Integrals			
			Duration
	LO 3.4 A	Interpret the meaning of a definite integral within a problem .	
Priority Standard(s)	LO 3.4 E	Use the definite integral to colve problems in various contexts.	
	LO 3.4 C	Apply definite integrals to problems invovling motion.	
	LO 3.4 D	Apply definite integrals to problems involving area, volume and (BC) length of a curve	
Supporting Standard(s)	LO 3.3 B (a)	Calculate antiderivatives.	
	LO 3.3 B (b)	Evaluate definite integrals.	