

# Curriculum Mapping

School Illini Bluffs High School School Year 2009-2010

Teacher \_\_\_\_\_ Email Address \_\_\_\_\_

Course PRECALCULUS Grade Level 11+ Page \_\_\_\_\_

Month	ILS	Content	Skills	Assessments	Resources
<b>August</b>	6A5 6C5	Numbers, Relations , and Functions	Represent numerical intervals using correct notation Represent, compare, and order real numbers Solve and graph inequalities Evaluate composition of functions	Quizzes Tests Worksheets Class discussion Boardwork	Text Scientific calculator Graphing calculator Graph paper Teacher resource material Computer-generated worksheets
<b>September</b>	8A5 6B5	Complex numbers Binomial theorem	Graph and interpret the graph of a complex number in rectangular and vector form Expand binomials using Pascal's triangle and the binomial theorem	Quizzes Tests Worksheets Class discussion Boardwork	Text Scientific calculator Graphing calculator Graph paper Teacher resource material Computer-generated worksheets
<b>October</b>	8B5 8C5	Algebraic functions	Use synthetic substitution Find freal and rational zeros Find the maximua and minima using a graphing calculator Graph polynomials with and without the aid of a graphing calculator	Quizzes Tests Worksheets Class discussion Boardwork	Text Scientific calculator Graphing calculator Graph paper Teacher resource material Computer-generated worksheets

<b>Month</b>	<b>ILS</b>	<b>Content</b>	<b>Skills</b>	<b>Assessments</b>	<b>Resources</b>
<b>November</b>	6B5 8D5 6D5	Exponential and logarithmic functions	Evaluate and simplify rational and real exponents Simplify logarithmic expressions Solve equations involving logarithms and exponentials Apply exponentials and logarithms to compound interest problems Do an amortization of a loan	Quizzes Tests Worksheets Class discussion Boardwork	Text Scientific calculator Graphing calculator Graph paper Teacher resource material Computer-generated worksheets
<b>December</b>	8Cb4	Matrices	Add and multiply matrices Find inverses and determinants of matrices Set up and solve matrices representing linear equations	Quizzes Tests Worksheets Class discussion Boardwork	Text Scientific calculator Graphing calculator Graph paper Teacher resource material Computer-generated worksheets
<b>January</b>	8D4	Conics	Write an equation for conic sections from a graph Graph conics from an equation	Quizzes Tests Worksheets Class discussion Boardwork	Text Scientific calculator Graphing calculator Graph paper Teacher resource material Computer-generated worksheets
<b>February</b>	8A5	Sequences and series	Graph sequences Find $n$ th and specific term of a sequence Find the sum of finite and infinite series	Quizzes Tests Worksheets Class discussion Boardwork	Text Scientific calculator Graphing calculator Graph paper Teacher resource material Computer-

Month	ILS	Content	Skills	Assessments	Resources
					generated worksheets
<b>March</b>	8B5 8C5	Functions and limits	Relate sequences to functions Find the limit at a point Find the limit at infinity-	Quizzes Tests Worksheets Class discussion Boardwork	Text Scientific calculator Graphing calculator Graph paper Teacher resource material Computer-generated worksheets
<b>April</b>	8C5	Derivative	Use the definition of derivative Use the rules for finding derivatives Use the derivative to find maxima and minima of polynomials Use derivatives to solve maxima and minima problems Use derivatives to solve velocity and acceleration problems	Quizzes Tests Worksheets Class discussion Boardwork	Text Scientific calculator Graphing calculator Graph paper Teacher resource material Computer-generated worksheets
<b>May</b>	8D5	Integrals	Find the definite integral Use the definite integral to find areas	Quizzes Tests Worksheets Class discussion Boardwork	Text Scientific calculator Graphing calculator Graph paper Teacher resource material Computer-generated worksheets
<b>June</b>					