

Dixie State College  
Suggested Courses Leading to  
Utah Mathematics Endorsements II, III, & IV

Level II	Level III	Level IV
Math 1050 College Algebra		
Math 1060 Trigonometry		
Math 1210 Calculus I		
Math 4500 Methods of Sec./Applications Computers (1210)		
	Math 1220 Calculus II	
	Math 2270 Linear Algebra (1210)	
	Math 3100 Euclidean/Non Euclidean Geo (1220)	
	Math 3400 Probability and Statistics (1220)	
	Math 4000 Foundations of Algebra (1220)	
		Math 2210 Multivariate Calc III
		Math 2280 Differential Equ (1220)
		Math 3200 Intro Analysis (2210)
		Math 3000 History of Math (1220)
Math 1040 Intro to Stats		
Math 2010 Math Elem Tch I		
Math 2020 Math Elem Tch II		

Notes:

Prerequisites are in parentheses.

Shaded areas across more than one column indicate classes included in multiple levels.

## Secondary Mathematics Endorsement Checklist of Minimum Requirements

Please place the course number in the appropriate box to indicate that the minimum requirement has been completed

### Mathematics Endorsement 2\*

Course Number	Requirement Description
	Mathematics for Elementary Teachers I (problem solving, number systems and operations, number theory, and algorithms of arithmetic)
	Mathematics for Elementary Teachers II (real numbers, geometry and measurement, and data analysis)
	College Algebra
	Trigonometry
	Probability and Statistics (at or above the introductory level)
	One of the following: Calculus I, Euclidean and Non-Euclidean Geometry (Foundations), or Foundations of Algebra
	Methods of Teaching Secondary Mathematics and Applications of Computers and Calculators in Mathematics

A Mathematics Endorsement 2 provides authorization to teach the following core courses: Math 7, Pre-algebra, Elementary Algebra, and Applied Mathematics I.

### Mathematics Endorsement 3\*\*

Course Number	Requirement Description
	College Algebra
	Trigonometry
	Calculus I and II (one year)
	Foundations of Algebra
	Euclidean and Non-Euclidean Geometry (Foundations)
	Probability and Statistics (above the introductory level)
	Linear Algebra
	Methods of Teaching Secondary Mathematics and Applications of Computers and Calculators in Mathematics

A Mathematics Endorsement 3 provides authorization to teach the following core courses: All courses requiring a Mathematics Endorsement 2, Geometry, Intermediate Algebra, and Applied Mathematics II.

### Mathematics Endorsement 4\*\*

Course Number	Requirement Description
	College Algebra
	Trigonometry
	Calculus I and II (one year)
	Abstract Algebra (Foundations)
	Euclidean and Non-Euclidean Geometry (Foundations)
	Probability and Statistics (above the introductory level)
	Linear Algebra
	Multivariable Calculus
	Differential Equations
	Introduction to Analysis or Advanced Calculus
	One of the following: Number Theory, Capstone Mathematics Course, or History of Mathematics
	Methods of Teaching Secondary Mathematics and Applications of Computers and Calculators in Mathematics

A Mathematics Endorsement 4 provides authorization to teach the following core courses: All courses requiring a Mathematics Endorsement 2 or 3, Pre-calculus, A.P. Calculus, and A.P. Statistics.

#### NCLB Information

\* Teachers possessing only a Mathematics Endorsement 2 do not meet NCLB "Highly Qualified" guidelines.

\*\* Teachers possessing a Mathematics Endorsement 3 or 4 are considered "Highly Qualified according to NCLB guidelines. 08/13/2004