



CALIFORNIA STATE UNIVERSITY, SAN BERNARDINO

PLAN FOR
 MATHEMATICS INTRODUCTORY AUTHORIZATION
 TO TEACHING CREDENTIALS

- ✦ Meets guidelines for the California Commission on Teacher Credentialing authorization for holders to teach mathematics in California public schools through grade 9 level. NCLB compliant.
- ✦ Choose 48 quarter units from the matrix below.
- ✦ Must include at least 4 quarter units in each required subject area (algebra; advanced algebra; geometry; probability and statistics; real number system or introduction to mathematics). 'X' in the matrix indicates course meets these requirements.
- ✦ Course substitutions of like content from accredited community colleges, colleges and universities can be made with the approval of your advisor.

Course Number, Title and Quarter Units	Algebra	Advanced Algebra	Geometry	Probability and Statistics	Real Number System or Introduction to Math
MATH 110 College Algebra (4 units) OR MATH 10 College Algebra at Community College	X				
MATH 120 Pre-Calculus Mathematics (4 units) OR MATH 12 Pre-Calculus at Community College		X			

Course Number, Title and Quarter Units	Algebra	Advanced Algebra	Geometry	Probability and Statistics	Real Number System or Introduction to Math
<p>MATH 115 The Ideas of Mathematics (4 units) <i>OR</i> MATH 13 Liberal Arts Math at Community College</p>				X	
<p>MATH 180 Critical Thinking through Applications of Mathematical Logic (4 units)</p>					
<p>MATH 301A Fundamental Concepts of Mathematics for Educators (Arithmetic/ Geometry) (4 units)</p>					X
<p>MATH 301B Fundamental Concepts of Mathematics for Educators (Concrete to Abstract in Algebra/ Geometry) (4 units)</p>					
<p>MATH 301C Fundamental Concepts of Mathematics for Educators (Further Developments in Algebra/Geometry) (4 units)</p>					

Course Number, Title and Quarter Units	Algebra	Advanced Algebra	Geometry	Probability and Statistics	Real Number System or Introduction to Math
<p>MATH 308 Problem Solving through Theory and Practice (2 units)</p>					
<p>MATH 229 Geometry in Two and Three Dimensions (4 units)</p>			X		
<p>MATH 211 Basic Concepts of Calculus <i>OR</i> MATH 192 Methods of Calculus (4 units) <i>OR</i> MATH 1A Calculus at Community College</p>	X	X	X		X
<p>MATH 305 Statistics: Hypothesis Testing and Estimation <i>OR</i> MATH 262 Applied Statistics (4 units)</p>				X	
<p>MATH 199 Technology in Math Education through Problem Solving (3 units)</p>					

Course Number, Title and Quarter Units	Algebra	Advanced Algebra	Geometry	Probability and Statistics	Real Number System or Introduction to Math
MATH 212 Calculus II (4 units)	X	X	X		X
MATH 272 Discrete Mathematics (4 units)		X			

For information –

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