

MATHEMATICS EDUCATION

Grade Level 5-12 REPA 3

**NOT VALID
WITHOUT
OFFICIAL
TRANSCRIPT
EVALUATION**

<u>CONTENT</u>	<u>Semester Hours</u>
MA 35100 Elementary Linear Algebra	3
MA 36600 Ordinary Differential Equations	4
MA 37500 Introduction to Discrete Mathematics	3
MA 46000 Geometry	3
MA 48400 Seminar on Teaching College Algebra and Trigonometry	3
STAT 31100 Introductory Probability	3
STAT 35000 Introduction to Statistics ¹	3
One of the following:	3
MA 30100 An Introduction to Proof Through Real Analysis (3)	
MA 34100 Foundations of Analysis (3)	
One of the following:	3
MA 45000 Algebra (Honors) (3)	
MA 45300 Elements of Algebra I (3)	
One of the following (Calculus I Selective):	4-5
MA 16100 Plane Analytic Geometry and Calculus I (5)	
MA 16500 Analytic Geometry and Calculus I (4)	
One of the following (Calculus II Selective):	4-5
MA 16200 Plane Analytic Geometry and Calculus II (5)	
MA 16600 Analytic Geometry and Calculus II (4)	
One of the following (Calculus III Selective)	4-5
MA 26100 Multivariate Calculus (4)	
MA 27101 Honors Multivariate Calculus (5)	
One of the following:	3-4
CS 15900 Programming Applications for Engineers (3)	
CS 17700 Programming with Multimedia Objects (4)	
CS 18000 Problem Solving and Object-Oriented Programming (4)	
Total Content 43-47	<hr style="width: 100px; margin-left: auto; margin-right: 0;"/>

¹The higher grade between STAT 35000 or MA 48400 is used toward content GPA.

Note: A course cannot be counted in two areas.

(Mathematics Continued)

PROFESSIONAL EDUCATION

**Semester
Hours**

Foundation Courses

EDCI	20500	Exploring Teaching as a Career	3
EDCI	27000	Introduction to Educational Technology and Computing	3
EDCI	28500	Multiculturalism and Education	3
EDPS	23500	Learning and Motivation	3
EDPS	26500	The Inclusive Classroom	3
EDST	20010	Educational Policies and Laws	1
EDPS	32700	Classroom Assessment	1
EDPS	43010	Secondary Creating and Managing Learning Environments	1

Methods Courses

EDCI	22550	Mathematics Methods Seminar	1
EDCI	42500	Teaching of Mathematics in Secondary Schools ²	3
EDCI	42600	Teaching Mathematics in the Middle and Junior High School	3
EDCI	49800	Supervised Teaching (16 weeks)	12

Total Professional Education 37

²This course includes the completion of a reading module.