

# 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
STAT 31100 Introductory Probability	3
STAT 35000 Introduction to Statistics <sup>1</sup>	3
<b>One of the following:</b>	3
MA 30100 An Introduction to Proof Through Real Analysis (3)	
MA 34100 Foundations of Analysis (3)	
<b>One of the following:</b>	3
MA 45000 Algebra (Honors) (3)	
MA 45300 Elements of Algebra I (3)	
<b>One of the following (Calculus I Selective):</b>	4-5
MA 16100 Plane Analytic Geometry and Calculus I (5)	
MA 16500 Analytic Geometry and Calculus I (4)	
<b>One of the following (Calculus II Selective):</b>	4-5
MA 16200 Plane Analytic Geometry and Calculus II (5)	
MA 16600 Analytic Geometry and Calculus II (4)	
<b>One of the following (Calculus III Selective)</b>	4-5
MA 26100 Multivariate Calculus (4)	
MA 27101 Honors Multivariate Calculus (5)	
<b>One of the following:</b>	3-4
CS 15800 C Programming (3)	
CS 15900 Programming Applications for Engineers (3)	
CS 17700 Programming with Multimedia Objects (4)	
CS 18000 Problem Solving and Object-Oriented Programming (4)	
<b>Total Content 40-44</b>	<hr style="width: 100px; margin-left: auto; margin-right: 0;"/>

<sup>1</sup>The higher grade between STAT 35000 or other 300-level or higher MA selective is used toward content GPA. Other selective cannot be MA 30300, MA 30400, or MA 37300. Suggested selective courses can be found at [www.math.purdue.edu/academic/undergrad/selectives](http://www.math.purdue.edu/academic/undergrad/selectives).

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

**Total Professional Education 37**

<sup>2</sup>This course includes the completion of a reading module.