

## Mathematics (2012-2013)

### Elementary Certification

This is a **general curriculum** guide and is not applicable to every student and is not a replacement for meeting with your advisor.

**-Student needs MTH 110 prerequisite-**

Fall Semester – Year One	credits	Winter Semester- Year One	credits
MTH 110: Algebra	4	MTH 122: College Algebra ( <i>Gen Ed</i> )	3
WRT 150: Strategies in Writing ( <i>Gen Ed.</i> )	4	MTH 123: Trigonometry	3
Gen Ed.	3	PSY 101: Introductory Psychology ( <i>Gen Ed</i> )	3
Gen Ed.	3	Gen Ed.	3
<b>Total</b>	<b>14</b>	Gen Ed.	3
		<b>Total</b>	<b>15</b>
Fall Semester – Year Two	credits	Winter Semester – Year Two	credits
MTH 201: Calculus I	5	MTH 202: Calculus II	4
MTH 221: Mathematics for Elementary Teachers I ( <i>minor</i> )	4	MTH 222: Mathematics for Elementary Teachers II ( <i>minor</i> )	3
PSY 301: Child Development*	3	SCI 225: Integrated Life Sciences for K-8 ( <i>Gen Ed/minor</i> )	4
ED 315: Diverse Perspectives on Education ( <i>Gen Ed</i> )*	3	PED 265: Teaching Health in Elementary Schools ( <i>minor</i> )	2
		PED 266: Move, Dance, Learn! ( <i>minor</i> )	2
<b>Total</b>	<b>15</b>	<b>Total</b>	<b>15</b>
Fall Semester – Year Three	credits	Winter Semester – Year Three	credits
MTH 210: Communicating in Mathematics ( <i>SWS</i> )	3	MTH 345: Discrete Mathematics	3
MTH 227: Linear Algebra I	3	MTH 323: Probability & Statistics for Elementary Teachers	3
MTH 322: Geometry for Elementary Teachers	3	ENG 302: Introduction to Language Arts ( <i>minor</i> )	3
SCI 226: Integrated Physical Sciences for K-8( <i>GenEd/minor</i> )	3	ENG 308: Teaching Reading: The Necessary Skills( <i>minor</i> )	4
ED 337: Introduction to Learning and Assessment*	3	Gen Ed.	3
<b>Total</b>	<b>15</b>	<b>Total</b>	<b>13</b>
Fall Semester – Year Four	credits	Winter Semester – Year Four (Teacher Assisting)	credits
MTH 310: Modern Algebra I	3	ED 310: Organizing & Managing Classroom Environments	3
MTH 324: Algebra for Elementary Teachers	3	ED 320: Reading: Assessment and Instruction	3
MAT 300: Music, Art, & Theater for Elem Education ( <i>minor</i> )	3	ED 330: Teacher Assisting: Elementary	5
SST 309: Social Studies for Elementary Teachers ( <i>minor</i> )	3	ED 370: Technology in Education**	3
MTH 341: Euclidean Geometry	3		
<b>Total</b>	<b>15</b>	<b>Total</b>	<b>14</b>
Fall Semester – Year Five	credits	Winter Semester – Year Five (Student Teaching)	credits
STA 312: Probability and Statistics	3	ED 430: Student Teaching, Elementary	10
MTH 495: Nature of Modern Mathematics <sup>1</sup>	3	ED 485: The Context of Educational Issues	3
ED 378: Universal Design for Learning: Elementary**	3		
Gen Ed.	3		
Gen Ed.	3		
<b>Total</b>	<b>15</b>	<b>Total</b>	<b>13</b>

**The block tuition rate is for 12-15 credits. You will pay additional tuition for any credits over 15.**

#### Notes:

\* These are the pre-admission courses to the College of Education and must be completed with a minimum cumulative GPA of 2.7.

\*\* ED 370 and/or ED 379 may be taken during or after Teacher Assisting but must be taken before Student Teaching.

<sup>1</sup> Capstone requirement.

**Elementary Certification Minor** - Students pursuing elementary certification must also complete the Elementary Certification minor.

#### Special Notes:

A. This is a **general** curriculum guide and will not work for everyone, especially those students who have AP or CLEP credit.

B. Courses that have (*Gen Ed*) written after them are classes that are required in the major or minor and also fulfill a section of the general education program.

C. Complete a total of two courses with an SWS attribute.

D. You must have 120 credits to graduate from Grand Valley State University. The last 30 credits must be earned in GVSU courses.

It is imperative to meet with your faculty advisor or an advisor in the CLAS Academic Advising Center early in your career.

The CLAS Academic Advising Center is located in C-1-140 MAK, 616-331-8585.

Online at: <http://www.gvsu.edu/clasadvising/>

Prepared by CLAS Academic Advising Center and the Department of Mathematics – 3/9/2012