

# Mathematics (2011-2012)

## 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 is starting in MTH 201-**

Fall Semester – Year One	credits	Winter Semester – Year One	credits
MTH 201: Calculus I ( <i>Gen Ed.</i> )	5	MTH 202: Calculus II	4
WRT 150: Strategies in Writing	4	PSY 101: Introductory Psychology ( <i>Gen Ed.</i> )	3
Gen Ed.	3	Gen Ed.	3
Gen Ed.	3	Gen Ed.	3
<b>Total</b>	<b>15</b>	<b>Total</b>	<b>13</b>
Fall Semester – Year Two	credits	Winter Semester – Year Two	credits
MTH 221: Mathematics for Elementary Teachers I*	4	MTH 222: Mathematics for Elementary Teachers II*	3
MTH 210: Communicating in Mathematics	3	MTH 227: Linear Algebra I	3
PSY 301: Child Development*	3	SCI 225: Integrated Life Sciences for K-8 ( <i>Gen Ed.</i> )*	4
ED 315: Diverse Perspectives on Education ( <i>Gen Ed.</i> )*	3	ED 337: Introduction to Learning and Assessment*	3
<b>Total</b>	<b>13</b>	PED 266: Move, Dance Learn*	2
		<b>Total</b>	<b>15</b>
Fall Semester – Year Three	credits	Winter Semester – Year Three	credits
MTH 322: Geometry for Elementary Teachers	3	MTH 310: Modern Algebra I	3
MTH 345: Discrete Mathematics	3	MTH 323: Probability & Statistics for Elementary Teachers	3
ENG 308: Teaching Reading: The Necessary Skills*	4	SST 309: Social Studies for Elementary Teachers*	3
SCI 226: Integrated Physical Sciences for K-8( <i>Gen Ed.</i> )*	3	PED 265: Teaching Health in Elementary Schools*	2
<b>Total</b>	<b>13</b>	MAT 300: Music, Art, and Theater for Elementary Education*	3
		<b>Total</b>	<b>14</b>
Fall Semester – Year Four	credits	Winter Semester – Year Four	credits
MTH 324: Algebra for Elementary Teachers	3	ED 310: Organizing and Managing Classroom Environments	3
MTH 341: Euclidean Geometry	3	ED 320: Reading: Assessment and Instruction	3
ENG 302: Introduction to Language Arts*	3	ED 330: Teacher Assisting: Elementary	5
Gen Ed.	3	ED 370: Technology in Education**	3
Gen Ed. or Theme	3	<b>Total</b>	<b>14</b>
<b>Total</b>	<b>15</b>		
Fall Semester – Year Five	credits	Winter Semester – Year Five	credits
MTH 495: Nature of Modern Mathematics <sup>1</sup>	3	ED 430: Student Teaching, Elementary	10
STA 312: Probability and Statistics	3	ED 485: The Context of Educational Issues	3
ED 378: Universal Design for Learning: Elem.**	3		
Gen Ed. or Theme	3	<b>Total</b>	<b>13</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 courses are Education Major prerequisites and include the elementary certification minor. These courses must be completed before applying to the College of Education. Student must have a minimum GPA of 2.7 in these classes, and their major. **Consult with your advisor!**

\*\* ED 370 and/or ED 378 may be taken during or after Assisting but must be taken before Student Teaching.

<sup>1</sup> Capstone requirement.

### Special Notes:

- This is a **general** curriculum guide and will not work for everyone, especially those students who have AP or CLEP credit.
- 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.
- Complete a total of two courses with an SWS attribute. The two SWS courses may not be taken from the same department or school. One must be from outside the student's major unit.
- 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>