

# Mathematics (2012-2013)

## Secondary Teacher 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
		Gen Ed.	3
<b>Total</b>	<b>14</b>	<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
PSY 301: Child Development*	3	MTH 210: Communicating in Mathematics ( <i>SWS</i> )	3
ED 315: Diverse Perspectives on Education ( <i>Gen Ed</i> )*	3	ED 337: Introduction to Learning and Assessment*	3
Minor Elective	3	Gen Ed.	3
		Minor Elective	3
<b>Total</b>	<b>14</b>	<b>Total</b>	<b>16<sup>#</sup></b>
Fall Semester – Year Three	credits	Winter Semester – Year Three	credits
MTH 203: Calculus III	4	MTH 229: Mathematical Activities for Sec. Teachers	3
MTH 227: Linear Algebra I	3	MTH 345: Discrete Mathematics	3
MTH Cognate <sup>1</sup>	3	STA 312: Probability and Statistics	3
Minor Elective	3	Gen Ed.	3
Minor Elective	3	Gen Ed.	3
<b>Total</b>	<b>16<sup>#</sup></b>	<b>Total</b>	<b>15</b>
Spring Semester – Year Three	credits	Summer Semester – Year Three	credits
MTH 341: Euclidean Geometry	3		
Fall Semester – Year Four	credits	Winter Semester – Year Four (Teacher Assisting)	credits
MTH 310: Modern Algebra I	3	ED 331: Methods and Strategies of Secondary Teaching	5
MTH 329: Teaching Middle Grades Math	3	ED 310: Organizing & Managing Classroom Environments	3
Minor Elective	3	ED 321: Content Area Literacy	3
Minor Elective	3	ED 370: Technology in Education**	3
Gen Ed.	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
MTH 495: Nature of Modern Mathematics <sup>2</sup>	3	ED 431: Student Teaching, Secondary	10
MTH Elective <sup>3</sup>	3	ED 485: The Context of Educational Issues	3
ED 379: Universal Design for Learning: Secondary**	3		
Minor Elective	3		
Gen Ed.	3		
<b>Total</b>	<b>15</b>	<b>Total</b>	<b>13</b>

<sup>#</sup>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 and no grade lower than C. Secondary teacher certification students must also have a teachable minor. **Consult with your advisor for options!**

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

<sup>1</sup> Choose one course from the following: BIO 355, BIO 375, CHM 351, CIS 160, CIS 162, CIS 261, ECO 342, ECO 480, EGR 304, GEO 440, GEO 470, HSC 201, PHI 203, PHY 230, PSY 300, STA 314, STA 345, or STA 412.

<sup>2</sup> Capstone requirement.

<sup>3</sup> Select one math elective from the following courses: MTH 300, 304, 327, 360, 400, 401, 402, 405, 408, 409, 410, 431, 441, 465, 495, or 496. **The elective must be different than the capstone.**

### 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 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