Mathematics (2012-2013)
General

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 *(Gen Ed.)*	3
WRT 150: Strategies in Writing *(Gen Ed)*	4	MTH 123: Trigonometry	3
Gen Ed.	3	Elective	3
Gen Ed.	3	Gen Ed.	3
		Gen Ed.	3
Total	**14**	*Total*	**15**
Fall Semester – Year Two	**credits**	**Winter Semester – Year Two**	**credits**
MTH 201: Calculus I	5	MTH 202: Calculus II	4
CIS 160: Programming with Visual Basic *OR*	3	MTH 210: Communicating in Mathematics *(SWS)*	3
CIS 162: Computer Science I *OR*	4	Elective	3
EGR 261: Structured Programming in C	3	Gen Ed.	3
Gen Ed	3	Gen Ed.	3
Gen Ed.	3		
Total	**14-15**	*Total*	**16#**
Fall Semester – Year Three	**credits**	**Winter Semester – Year Three**	**credits**
MTH 203: Calculus III	4	MTH 310: Modern Algebra I	3
MTH 227: Linear Algebra I	3	Gen Ed.	3
MTH Elective[1]	3	MTH Elective	3
Elective	3	Elective	3
Elective	3	Elective	3
Total	**16#**	*Total*	**15**
Fall Semester – Year Four	**credits**	**Winter Semester – Year Four**	**credits**
MTH 408: Advanced Calculus I	3	MTH 410: Modern Algebra II *OR*	3
STA 312: Probability and Statistics	3	MTH 409: Advanced Calculus II[3]	
MTH Elective or Cognate[2]	3	MTH 495: Nature of Modern Mathematics*	3
Elective	3	MTH Cognate	3
Gen Ed.	3	Gen Ed.	3
		Elective	3
Total	**15**	*Total*	**15**

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

Notes:

* Capstone course.

[1] For a total of 11 courses in Mathematics (at the 200 level or above), students can choose from the following: MTH 300, MTH 304, MTH 327, MTH 341, MTH 345, MTH 360, MTH 400, MTH 401, MTH 402, MTH 405, MTH 409, MTH 410, MTH 431, MTH 441, or MTH 465.

[2] Choose one course from the following: BIO 355, BIO 375, CHM 351, ECO 342, ECO 480, EGR 304, GEO 440, GEO 470, HSC 201, PHI 203, PHY 230, PSY 300, STA 314, or STA 412.

[3] MTH 410 is only offered winter semester. MTH 409 is only offered winter semester of even numbered years. This is the completion of the upper level two part math sequence. Other sequences that may be chosen are: MTH 310 and 410, or MTH 341 and 431, or MTH 300 and 400, or MTH 300 and 401, or MTH 345 and 360. Talk with your advisor about the most appropriate sequence for you.

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.