

Biology (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
BIO 120: General Biology I (<i>Gen Ed</i>)	4	BIO 121: General Biology II	4
MTH 110: Algebra	4	CHM 115: Principles of Chemistry I (<i>Gen Ed</i>)	5
WRT 150: Strategies in Writing	4	MTH 122: College Algebra (<i>Gen Ed</i>) ³	3
Gen Ed.	3	Gen Ed.	3
Total	15	Total	15
Fall Semester – Year Two	credits	Winter Semester – Year Two	credits
BIO 215: General Ecology	4	BIO Elective ⁵	3
CHM 116: Principles of Chemistry II	5	CHM 231: Introductory Organic Chemistry Or²	4
MTH 123: Trigonometry ³	3	CHM 241: Organic Chemistry for Life Science I	4
Gen Ed.	3	MTH Cognate ¹	3
		Gen Ed.	3
		Elective	3
Total	15	Total	16*
Fall Semester – Year Three	credits	Winter Semester – Year Three	credits
BIO 375/376: Genetics/Genetics Lab	4	BIO Elective	3
CHM 232: Biological Chemistry Or²	4	PHY 221: General Physics II ³	5
CHM 242: Organic Chemistry for Life Science II	4	Elective	3
PHY 220: General Physics I ³ <i>Or</i>	5	Gen Ed. or Theme	3
PHY 200: Physics for the Life Sciences ³	4		
Gen Ed	3		
Total	15-16*	Total	14
Fall Semester – Year Four	credits	Winter Semester – Year Four	credits
BIO 405/406: Cell and Molecular Bio. w/lab (SWS)	6	BIO 495: Evolutionary Biology (Capstone)	3
BIO Elective ⁴	4	BIO Elective ⁵	4
Elective	3	Elective	3
Gen Ed. or Theme	3	Gen Ed. or Theme	3
		Gen Ed. or Theme	3
Total	16*	Total	16*

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

Notes:

¹ Choose one of the following to complete the math cognate for the Major: MTH 125: Survey of Calculus, MTH 201: Calculus and Analytical Geometry, or STA 215: Introductory Applied Statistics.

² If you plan to attend graduate or professional school, you will want to complete the CHM 241/242 sequence.

³ MTH 122/123 are prerequisites for PHY 220 and are not part of the Biology major. If a student chooses to take PHY 200 then MTH 122/123 do not need to be completed. PHY 221 is not required, but students planning to attend graduate school, professional school, or secondary teacher certification should complete the PHY 220/221 sequence.

⁴ Students must choose at least one animal and one plant biology elective.

⁵ The Biology electives consist of 13 credits in Biology at the 200 level. These are in addition to the core. At least 3 credits must be at the 300-400 levels.

Special Notes:

A. This is a **general** curriculum guide and will not work for everyone, especially those students who have AP, IB or CLEP credit. For students without high school chemistry, CHM 109 is strongly encouraged.

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. Students must complete a total of two courses with an SWS attribute.

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 – 1/23/12