Biology (2010-2011)

Plant Emphasis

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

-Assumes that the MTH 110 requirement has been fulfilled-

Fall Semester – Year One	**credits**	**Winter Semester- Year One**	**credits**
BIO 120: General Biology I *(Gen Ed)*	4	BIO 121: General Biology II	4
CHM 115: Principles of Chemistry I *(Gen Ed)*	5	CHM 116: Principles of Chemistry II	5
MTH 122: College Algebra *(Gen Ed)*	3	WRT 150: Strategies in Writing	4
Gen Ed.	3	MTH 123: Trigonometry	3
Total	15	***Total***	16
Fall Semester – Year Two	**credits**	**Winter Semester – Year Two**	**credits**
BIO 215: General Ecology	4	BIO 375/376: Genetics/ Genetics Lab	4
CHM 231: Introductory Organic Chemistry	4	**CHM 232: Biological Chemistry**	4
Or[1]		***Or***	
CHM 241: Organic Chemistry for Life Science I	4	**CHM 242: Organic Chemistry for Life Science II**	4
		MTH Cognate[2]	3
Gen Ed.	3	Gen Ed.	3
Gen Ed.	3		
Total	14	***Total***	14
Fall Semester – Year Three	**credits**	**Winter Semester – Year Three**	**credits**
BIO 405/406: Cell and Molecular Biology w/lab	6	BIO 303: Plants and Fungi	4
		BIO 333: Systematic Botany	3
PHY 220: General Physics I	5	PHY 221: General Physics II[3]	5
Gen Ed. or Theme	3	WRT 305: Writing in the Disciplines[4]	3
Elective	1		
Total	15	***Total***	15
Fall Semester – Year Four	**credits**	**Winter Semester – Year Four**	**credits**
BIO Elective[5]	3	BIO 495:Evolutionary Biology	3
Elective	3	BIO 403: Plant Structure and Function	4
Gen Ed. or Theme	3	Elective	3
Gen Ed. or Theme	3	Gen Ed. or Theme	3
Gen Ed. or Theme	3	Gen Ed. or Theme	3
Total	15	***Total***	16

Notes:

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

[2] One course must be selected from MTH 125: Survey of Calculus, MTH 201: Calculus and Analytical Geometry, or STA 215: Introductory Applied Statistics.

[3] PHY 221 is not required, but students planning to attend graduate school, professional school, or secondary teacher certification should complete the physics 220/221 sequence.

[4] Students who pass out of WRT 305 have room to take a GenEd, Theme, or elective course in this semester.

[5] One animal biology course must be selected as an elective.

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. Remember to fulfill your 2 SWS requirements; 1 can be taken in the gen ed program and 1 in your major.

D. Some classes are in multiple sections within the gen ed. If you take a course that can be counted in two categories, you can open up 1-2 more spots for biology electives.

E. The following courses may be of interest when selecting the Plant Biology Emphasis: BIO 323 Aquatic Plants, BIO 413 Freshwater Algae, BIO 423 Plant Biotechnology, BIO 573 Plants of the Great Lakes Region (with permission).

F. You must have **120 credits** to graduate from Grand Valley State University.

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 – 2/4/10