

# 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.

**-Student is starting in MTH 110-**

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

### Notes:

<sup>1</sup> One course must be selected from MTH 125: Survey of Calculus, MTH 201: Calculus and Analytical Geometry, or STA 215: Introductory Applied Statistics.

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

<sup>3</sup> 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.

<sup>4</sup> Students who pass out of WRT 305 have room to take a GenEd, Theme, or elective course in this semester.

<sup>5</sup> One animal biology course must be selected as an elective.

### 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 and also fulfill a section of the general education program.
- Remember to fulfill your 2 SWS requirements; 1 can be taken in the gen ed program and 1 in your major.
- 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.
- 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).
- 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