

# Biology (2011-2012)

*Pre-Med, Pre-Dent, Pre-Optometry, Pre-Podiatry, Pre-Chiropractic*

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

**Consult with your pre-professional advisor early and often!**

**-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
Gen Ed.	3	WRT 150: Strategies in Writing	4
Gen Ed.	3	MTH 122: College Algebra ( <i>Gen Ed</i> ) <sup>4</sup>	3
<b>Total</b>	<b>14</b>	<b>Total</b>	<b>16*</b>
Spring Semester – Year One	credits	Summer Semester – Year One	credits
Chemistry 116: Principles of Chemistry II	5	MTH 123: Trigonometry <sup>4</sup>	3
Fall Semester – Year Two	credits	Winter Semester – Year Two	credits
BIO 215: General Ecology	4	CHM 242: Organic Chemistry for Life Science II	4
CHM 241: Organic Chemistry for Life Science I	4	PHY 221: General Physics II	5
MTH Cognate <sup>1</sup>	3	BIO elective	3
PHY 220: General Physics I <sup>4</sup>	5	PSY 101: Introductory Psychology ( <i>Gen Ed</i> )	3
<b>Total</b>	<b>16*</b>	<b>Total</b>	<b>15</b>
Fall Semester – Year Three	credits	Winter Semester – Year Three <sup>2</sup>	credits
CHM 461: Biochemistry I	4	BIO 375/376: Genetics/Genetics Lab	4
BIO Elective	3	Elective	3
Elective	3	Elective	3
Gen Ed. or Theme	3	Gen Ed.	3
Gen Ed.	3	Gen Ed. or Theme	3
<b>Total</b>	<b>16*</b>	<b>Total</b>	<b>16*</b>
Fall Semester – Year Four	credits	Winter Semester – Year Four	credits
BIO 405/406: Cell and Molecular Bio. w/lab ( <i>SWS</i> )	6	BIO 495: Evolutionary Biology	3
BIO Elective <sup>3</sup>	4	BIO Elective <sup>3</sup>	4
Elective	3	Elective	3
Gen Ed. or Theme	3	Elective	3
		Gen Ed. or Theme	3
<b>Total</b>	<b>16*</b>	<b>Total</b>	<b>16*</b>

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

## 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. Some medical schools require calculus, be sure to check admission pre- requisites.

<sup>2</sup> Students typically will take the MCAT in April, May, or June.

<sup>3</sup> One biology elective must be taken from an animal biology course and one from a plant biology course. The following courses are **strongly** suggested for the biology electives: BMS 208/309 Human Anatomy & Laboratory, BMS 212/213 Introductory Microbiology & Laboratory, BMS 290/291 Human Physiology & Lab.

<sup>4</sup> MTH 122/123 are prerequisites for PHY 220 and not part of the Biology major.

## Special Notes:

A. This is a **general** curriculum guide and will not work for everyone, especially those students who have AP or CLEP credit, and those who still need to complete MTH 110.

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. The two *SWS* courses may not be taken from the same department or school. One must be from outside the student's major unit.

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 – 3/8/2011