

# Biomedical Sciences (2010-2011)

## Microbiology Emphasis

This is a **general curriculum** guide and is not applicable to every student. **You must consult with your advisor early to ensure correct course selection!**

-Student is starting in MTH 110-

Fall Semester – Year One	Credits	Winter Semester	Credits
BIO 120: General Biology I ( <i>Gen Ed</i> )	4	CHM 115: Principles of Chemistry I ( <i>Gen Ed</i> )	5
MTH 110: Algebra	4	MTH 122: College Algebra ( <i>Gen Ed</i> )	3
WRT 150: Strategies in Writing	4	BMS 208: Human Anatomy	3
Gen Ed.	3	Gen Ed.	3
<b>Total</b>	<b>15</b>	<b>Total</b>	<b>14</b>
Fall Semester – Year Two	Credits	Winter Semester – Year Two	Credits
BIO 355: Human Genetics	3	CHM 241: Organic Chemistry I	4
<b>or</b>		BMS 212/213: Introductory Microbiology	4
BIO 375/376: Genetics/ Genetics Lab	4	STA 215: Introductory Applied Statistics	3
CHM 116: Principles of Chemistry II	5	Gen Ed.	3
MTH 123: Trigonometry	3		
Gen Ed.	3		
<b>Total</b>	<b>14-15</b>	<b>Total</b>	<b>14</b>
Fall Semester – Year Three	Credits	Winter Semester – Year Three	Credits
CHM 242: Organic Chemistry II	4	CHM 232: Biological Chemistry	4
PHY 220: General Physics I	5	<b>or</b>	
BMS 322/323: Bacterial Physiology w/Lab* <sup>3</sup>	4	CHM 461: Biochemistry	4
Gen Ed. or Theme	3	BMS 290/291: Human Physiology w/Lab	4
		PHY 221: General Physics II	5
		WRT 305: Writing in the Disciplines <sup>2</sup>	3
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>16</b>
Fall Semester – Year Four	Credits	Winter Semester – Year Four	Credits
BMS 312/313: Bacterial Genetics w/Lab <sup>4</sup>	4	BMS 499: Research in Biomedical Sciences	3
Major elective <sup>1</sup>	3	Major elective <sup>1</sup>	3
Elective	3	Gen Ed. or Theme	3
Gen Ed. or Theme	3	Gen Ed. or Theme	3
Gen Ed. or Theme	3	Gen Ed. or Theme	3
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>15</b>

### Notes:

<sup>1</sup> A minimum of 6 hours must be taken from the following: BIO 414: Molecular Biology of the Gene; BMS 410/411: Immunology w/Lab; BMS 412/413: Medical Bacteriology w/Lab; BMS 431 Medical Virology; CHM 462: Techniques in Biochemistry

<sup>2</sup> Students who pass out of WRT 305 have room to take a GenEd, Theme, or elective course in this semester.

<sup>3</sup> Offered Fall semester of odd-numbered years.

<sup>4</sup> Offered Fall semester of even-numbered years.

### 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 major electives.
- BMS 312/313 Bacterial Genetics is only offered fall semester of even numbered years. BMS 322/323 Bacterial Physiology is only offered fall semester of odd numbered years.
- 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 – 4/13/10