

Biomedical Sciences (2012-2013)

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!

-Assumes that the MTH 110 prerequisite has been fulfilled-

Fall Semester – Year One	credits	Winter Semester – Year One	credits
BIO 120: General Biology I (<i>Gen Ed</i>)	4	CHM 116: Principles of Chemistry II	5
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	MTH 123: Trigonometry	3
Gen Ed.	3	Gen Ed.	3
Total	15	Total	15
Fall Semester – Year Two	credits	Winter Semester – Year Two	credits
BIO 375/376: Genetics/Genetics Lab OR	4	BMS 212/213: Introductory Microbiology	4
BIO 355: Human Genetics	3	CHM 242: Organic Chemistry II	4
BMS 208: Human Anatomy	3	STA 215: Introductory Applied Statistics	3
CHM 241: Organic Chemistry I	4	Gen Ed.	3
Gen Ed.	3		
Total	13-14	Total	14
Fall Semester – Year Three	credits	Winter Semester – Year Three	credits
BMS 290/291 Human Physiology w/ Lab	4	CHM 461: Biochemistry I OR	4
PHY 220: General Physics I ⁴	5	CHM 232: Biological Chemistry	4
BMS 322/323: Bacterial Physiology w/Lab ²	4	PHY 221: General Physics II ⁴	5
Gen Ed. or Theme	3	Gen Ed.	3
		Elective	3
Total	16*	Total	15*
Fall Semester – Year Four	credits	Winter Semester – Year Four	credits
BMS 312/313: Bacterial Genetics w/Lab ³	4	BMS 499: Research in Biomedical Sciences	1-3
Major elective ¹	3	Major elective ¹	3
Elective	3	Elective	3
Gen Ed. or Theme	3	Elective	3
Gen Ed. or Theme	3	Gen Ed. or Theme	3
Total	16*	Total	15

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

Notes:

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

² Offered Fall semesters of odd-numbered years. Does NOT have to be taken before BMS 312/313.

³ Offered Fall semesters of even-numbered years. Does NOT have to be taken after BMS 322/323.

⁴ Physics 220/221 may be taken in the senior year if student is not pre-professional (medical, dental, etc.)

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