

**BIOMEDICAL SCIENCES-BS-NUTRITION SCIENCES EMPHASIS****WITH MS IN CLINICAL DIETETICS PREREQUISITES INCLUDED**THIS IS A **GENERAL** CURRICULUM GUIDE AND IS NOT APPLICABLE TO EVERY STUDENT. IT IS IMPORTANT TO MEET WITH YOUR ADVISOR.

Year One			
<b>BIO 120</b> General Biology I Prerequisites: High school chemistry, CHM 109, or CHM 115 strongly recommended (CHM 109 or 115 may be taken concurrently)	4 (6)	<b>BMS 105</b> Basic Nutrition <b>BMS 208</b> Human Anatomy Prerequisite: BIO 120	3 3
<b>CHM 115</b> Principles of Chemistry I Prerequisites: High school chemistry and (MTH 110 or MTH 122 or MTH 125 or MTH 201)	4 (6)	<b>CHM 116</b> Principles of Chemistry II Prerequisites: CHM 115 and (MTH 122 or MTH 125 or MTH 201)	5 (7)
<sup>3</sup> <b>MTH 122</b> College Algebra Prerequisite: MTH 110 or assignment through Grand Valley math placement	3	<b>WRT 150</b> Strategies in Writing	4
Gen Ed	3		
Elective	1		
<i>Numbers noted within (parentheses) are contact hours</i> <b>Total</b>	<b>15</b>	<b>Total</b>	<b>15</b>
Year Two			
<b>BMS 290</b> Human Physiology Prerequisites: BMS 208 and two semesters of chemistry	3	<b>BMS 212</b> Introductory Microbiology Prerequisites: BIO 120 and (CHM 230 or 232 or 241)	3
<b>BMS 291</b> Laboratory in Human Physiology Prerequisite: BMS 290 or concurrent registration	1 (3)	<b>BMS 213</b> Laboratory in Microbiology Prerequisite: BMS 212 or concurrent enrollment	1 (4)
<b>CHM 241</b> Organic Chemistry for Life Sciences I (Changing to 5 credits in fall 2015) Prerequisite: CHM 116	4 (6)	<b>BMS 301</b> Introduction to Research in Biomedical Sciences Prerequisites: STA 215 and sophomore standing	3
<b>STA 215</b> Introductory Applied Statistics Prerequisite: MTH 110 or equivalent	3	<b>CHM 242</b> Organic Chemistry for Life Sciences II Prerequisite: CHM 241	4 (6)
<b>PSY 101</b> Introductory Psychology Gen Ed	3 3	<sup>3</sup> <b>MTH 123</b> Trigonometry Prerequisite: MTH 122 or assignment through Grand Valley math placement (MTH 122 may be taken concurrently)	3
<b>Total</b>	<b>17*</b>	<b>Total</b>	<b>14</b>
Year Three			
<b>CHM 461</b> Biochemistry I ( <b>B- or better required</b> ) Prerequisite: CHM 242 or CHM 247 and CHM 248	4	<b>BIO 375</b> Genetics/ <b>BIO 376</b> Genetics Laboratory Prerequisites: BIO 120 and concurrent enrollment in BIO 376	3/1 (6)
<b>PHY 220</b> General Physics I Prerequisites: MTH 122 and MTH 123	5 (7)	<b>OR BIO 355</b> Human Genetics (lecture only) Prerequisite: BIO 120 or BIO 103, or permission of instructor	3
<b>HTM 250</b> Food Production and Kitchen Management Prerequisite: HTM 213 (waived for Pre-Dietetics students)	3	<b>BMS 404</b> Community Nutrition Prerequisite: BMS 105 and junior standing	3
<b>COM 209</b> Health Communication Systems Prerequisite: Sophomore standing	3	<b>BMS 415</b> Nutrition and Physical Performance Prerequisites: BMS 251 or BMS 290; and CHM 232 or 461	3
		<b>PHY 221</b> General Physics II Prerequisite: PHY 220	5 (7)
		Gen Ed	3
<b>Total</b>	<b>15</b>	<b>Total</b>	<b>17-18*</b>
Year Four			
<b>BMS 305</b> Clinical Nutrition ( <b>B- or better required</b> ) Prerequisite: BMS 290 or BMS 251 and (CHM 232 or CHM 230 or CHM 461)	3	<b>BMS 311</b> Pharmacological Aspects of Biomedical Sciences ( <b>B- or better required</b> ) Prerequisite: BMS 310	3
<b>OR BMS 306</b> Advanced Human Nutrition ( <b>B- or better required</b> ) Prerequisites: BMS 290 or MOV 304, and CHM 232 or 461.	3	<b>BMS 407</b> Nutrition in the Life Cycle Prerequisite: BMS 305 or 306	3
<b>BMS 310</b> Basic Pathophysiology ( <b>B- or better required</b> ) Prerequisites: BMS 212 and (BMS 290 or 251 or 253.)	3	<b>HTM 175</b> International Food and Culture	3
<sup>2</sup> <b>BMS 495</b> Concepts in Wellness (Capstone) SWS Prerequisites: BMS 208, BMS 212, BMS 290 or 291, and senior standing	3	<b>PSY 310</b> Behavior Modification Prerequisite: PSY 101 (or HNR 234)	3
Gen Ed	3	<b>SOC 288</b> Sociology of Food Issue/U.S. Diversity	3
Issue	3		
<b>Total</b>	<b>15</b>	<b>Total</b>	<b>18</b>

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

<sup>1</sup> Elective refers to any course that will help you earn the required 120 credits to graduate

<sup>2</sup> Students must complete a total of two courses with an SWS attribute

<sup>3</sup> For students with the Advanced Waiver/Override for Mathematics based on ACT scores, it is **STRONGLY RECOMMENDED** that proficiency in MTH 123 – Trigonometry – be demonstrated by either taking the MTH 123 course or by achieving a passing score on the GVSU math placement test **PRIOR** to taking PHY 220 and 221. Students who have AP/IP/dual enrollment credit for MTH 201 (Calculus I), or complete the MTH 122 and 123 proficiency tests, only need to complete STA 215. **To take the Math Proficiency Tests online, visit this link: [gvsu.edu/s/jk](https://gvsu.edu/s/jk)**

### Prerequisites for the MS in Clinical Dietetics

<b>Prerequisite Courses (Courses Marked with * must be completed with a B- (2.7) or better.)</b>	<b>School</b>	<b>Course Code / Title</b>	<b>Year</b>	<b>Grade</b>	<b>Credits</b>
<b>BIO 120</b> General Biology I					
<b>BMS 105</b> Basic Nutrition					
<b>BMS 208</b> Human Anatomy					
<b>BMS 212/213</b> Introductory Microbiology & Lab					
<b>BMS 290/291</b> Human Physiology & Lab					
<b>BMS 305</b> Clinical Nutrition * or <b>BMS 306</b> Advanced Human Nutrition*					
<b>CHM 109</b> Introductory Chemistry (or CHM 115 & 116)					
<b>CHM 231</b> Introductory Organic Chemistry (or CHM 241 & 242) (GV Prerequisite: CHM 109 or CHM 116)					
<b>CHM 232</b> Biological Chemistry (or CHM 461) * (GV Prerequisite: CHM 231)					
<b>HTM 250</b> Food Production and Kitchen Management					
<b>PSY 101</b> Introduction to Psychology					
<b>STA 215</b> Introductory Applied Statistics					
<b>Other required courses:</b> <b>BMS 310</b> Basic Pathophysiology* <b>BMS 311</b> Pharmacological Aspects of Biomedical Sciences* <b>BMS 404</b> Community Nutrition <b>BMS 407</b> Nutrition in the Life Cycle <b>COM 209</b> Health Communication <b>HTM 175</b> International Food and Culture <b>PSY 310</b> Behavior Modification <b>SOC 288</b> Sociology of Food <b>Students interested in the MS in Clinical Dietetics program should direct any questions about the program to Dr. Jody Vogelzang, GVSU College of Health Professions, 515 Michigan NE STE 300, Grand Rapids, MI 49503, <a href="mailto:vogelzjo@gvsu.edu">vogelzjo@gvsu.edu</a>.</b>					

#### Declaring the BMS Major with Nutrition Emphasis:

1. In myBanner, select “Student” > “Student Records” > “Change Major” > “Change Major 1/Program”
2. Choose “Biomedical Science-BS Nutrition” from the drop-down box.
3. Click “Submit” and then “Change to New Program”

#### General Education Overlap

General Education Categories fulfilled by the Biomedical Sciences Major:	
Life Sciences with Lab: BIO 120	Physical Sciences with Lab: CHM 115
Mathematical Sciences: STA 215, MTH 122, MTH 123	
Additional Overlap for Pre-Clinical Dietetics students	
Social and Behavioral Sciences: PSY 101	World Perspectives: HTM 175

It is imperative to meet with your faculty advisor and an advisor in the CLAS Academic Advising Center regularly.

The CLAS Academic Advising Center is located in C-1-140 MAK, 616-331-8585

<https://www.gvsu.edu/clasadvising> (Also find us on Orgsync, Facebook, and Twitter!)

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