# 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.*

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<th>Year One</th>
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</table>
| **BIO 120** General Biology I  
Prerequisites: High school chemistry, CHM 109, or CHM 115 strongly recommended (CHM 109 or 115 may be taken concurrently) | 4 | **BMS 105** Basic Nutrition  
Prerequisite: BMS 106  
**BMS 208** Human Anatomy  
Prerequisite: BMS 120  
**CHM 116** Principles of Chemistry II  
Prerequisites: CHM 115 and (MTH 122 or MTH 125 or MTH 201) | 3 | 3 | 5 | 4 |
| **CHM 115** Principles of Chemistry I  
Prerequisites: High school chemistry and (MTH 110 or MTH 122 or MTH 125 or MTH 201) | 4 | **WRT 150** Strategies in Writing | 3 |
| **3*MTH 122** College Algebra  
Prerequisite: MTH 110 or assignment through Grand Valley math placement | 3 |  |  |
| Gen Ed | 3 |  |  |
| Elective | 1 |  |  |
| Total | 15 | Total | 15 |

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<th>Year Two</th>
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| **BMS 290** Human Physiology  
Prerequisites: BMS 208 and two semesters of chemistry  
**BMS 291** Laboratory in Human Physiology  
Prerequisite: BMS 290 or concurrent registration | 3 | **BMS 212** Introductory Microbiology  
Prerequisites: BMS 120 and (CHM 230 or 232 or 241)  
**BMS 213** Laboratory in Microbiology  
Prerequisite: BMS 212 | 1 | 3 |
| **CHM 241** Organic Chemistry for Life Sciences I  
*(Changing to 5 credits in fall 2015)* Prerequisite: CHM 116  
**STA 215** Introductory Applied Statistics  
Prerequisite: MTH 110 or equivalent | 4 | **BMS 301** Introduction to Research in Biomedical Sciences  
Prerequisites: STA 215 and sophomore standing | 3 |
| **PSY 101** Introductory Psychology  
Gen Ed | 3 | **CHM 242** Organic Chemistry for Life Sciences II  
Prerequisite: CHM 241 | 3 |
| **3*MTH 123** Trigonometry  
Prerequisite: MTH 112 or assignment through Grand Valley math placement (MTH 112 may be taken concurrently) | 3 |  |  |
| Total | 17* | Total | 14 |

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<th>Year Three</th>
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| **CHM 461** Biochemistry I  
*(B- or better required)*  
Prerequisite: CHM 242 or CHM 247 and CHM 248  
**PHY 220** General Physics I  
Prerequisites: MTH 122 and MTH 123  
**HTM 250** Food Production and Kitchen Management  
Prerequisite: HTM 213 (waived for Pre-Dietetics students)  
**COM 209** Health Communication Systems  
Prerequisite: Sophomore standing | 4 | **BIO 375** Genetics/BIO 376 Genetics Laboratory  
Prerequisites: BMS 206 and concurrent enrollment in BIO 376  
**OR BIO 355** Human Genetics (lecture only)  
Prerequisite: BMS 212 or BIO 103, or permission of instructor  
**BMS 404** Community Nutrition  
Prerequisite: BMS 105 and junior standing  
**BMS 415** Nutrition and Physical Performance  
Prerequisites: BMS 251 or BMS 290; and CHM 232 or 461 | 3/1 | 3 | 3 | 5 |
| **PHY 221** General Physics II  
Prerequisite: PHY 220  
Gen Ed | 5 | **Gen Ed** | 3 |
| Total | 15 | Total | 17-18* |

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<tr>
<th>Year Four</th>
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| **BMS 305** Clinical Nutrition  
*(B- or better required)*  
Prerequisite: BMS 290 or BMS 251 and (CHM 232 or CHM 230 or CHM 461)  
**OR BMS 306** Advanced Human Nutrition  
*(B- or better required)*  
Prerequisites: BMS 290 or MOV 304, and CHM 232 or 461.  
**BMS 310** Basic Pathophysiology  
*(B- or better required)*  
Prerequisites: BMS 212 and (BMS 290 or 251 or 253.)  
**BMS 495** Concepts in Wellness (Capstone) SWS  
Prerequisites: BMS 208, BMS 212, BMS 290 or 291, and senior standing  
Gen Ed | 3 | **BMS 311** Pharmacological Aspects of Biomedical Sciences  
*(B- or better required)*  
Prerequisite: BMS 310  
**BMS 407** Nutrition in the Life Cycle  
Prerequisite: BMS 305 or 306  
**HTM 175** International Food and Culture  
**PSY 310** Behavior Modification  
Prerequisite: PSY 101 (or HNR 234)  
**SOC 288** Sociology of Food  
Issue/U.S. Diversity | 3 | 3 | 3 | 3 | 3 | 3 |
| Total | 15 | Total | 18 |
Prerequisite Courses for the MS in Clinical Dietetics

<table>
<thead>
<tr>
<th>Prerequisite Courses</th>
<th>School</th>
<th>Course Code / Title</th>
<th>Year</th>
<th>Grade</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIO 120 General Biology I</td>
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<td>BMS 105 Basic Nutrition</td>
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<td>BMS 208 Human Anatomy</td>
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<tr>
<td>BMS 212/213 Introductory Microbiology &amp; Lab</td>
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<tr>
<td>BMS 290/291 Human Physiology &amp; Lab</td>
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<tr>
<td>BMS 305 Clinical Nutrition *</td>
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<td>or BMS 306 Advanced Human Nutrition*</td>
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<tr>
<td>CHM 109 Introductory Chemistry</td>
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<td>(or CHM 115 &amp; 116)</td>
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<tr>
<td>CHM 231 Introductory Organic Chemistry</td>
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<td>(or CHM 241 &amp; 242)</td>
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<tr>
<td>CHM 232 Biological Chemistry</td>
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<td>(or CHM 461)</td>
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<td>HTM 250 Food Production and Kitchen Management</td>
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<td>PSY 101 Introduction to Psychology</td>
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<td>STA 215 Introductory Applied Statistics</td>
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Other required courses:

| BMS 310 Basic Pathophysiology*            | COM 209 Health Communication |        |
| BMS 311 Pharmacological Aspects of Biomedical Sciences* | HTM 175 International Food and Culture |        |
| BMS 404 Community Nutrition               | PSY 310 Behavior Modification |        |
| BMS 407 Nutrition in the Life Cycle       | SOC 288 Sociology of Food     |        |

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, vogelzjo@gvsu.edu.

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

<table>
<thead>
<tr>
<th>General Education Categories fulfilled by the Biomedical Sciences Major:</th>
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<tr>
<td>Life Sciences with Lab: BIO 120</td>
<td>Physical Sciences with Lab: CHM 115</td>
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<tr>
<td>Mathematical Sciences: STA 215, MTH 122, MTH 123</td>
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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
http://www.gvsu.edu/clasadvising (Also find us on Orgsync, Facebook, and Twitter!)

CLAS Professional Advisors:

- **Jo Ann Litton**
  littonj@gvsu.edu

- **Julie Amon**
  amonju@gvsu.edu