# BIOMEDICAL SCIENCE – GENERAL - BS

**Masters in Physician Assistant Studies Prerequisites Included**

This is a general curriculum guide and is not applicable to every student. It is important to meet with your advisor.

## Sample Four-Year Plan

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<th>Year One</th>
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<th>Year Two</th>
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<th>Year Three</th>
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<th>Year Four</th>
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</table>
| **BIO 120 General Biology I (Gen Ed)**  
Prerequisite: High school chemistry, CHM109 or CHM115 strongly recommended (CHM 109 or 115 may be taken concurrently)  
MTH 110 Algebra  
Prerequisite: MTH 097 or GVSU placement test  
Gen Ed Course  
Gen Ed Course  
Elective |  | **CHM 115 Principles of Chemistry I**  
Prerequisite: HS CHM, MTH 110 or MTH 122 or MTH 125 or 201. |  | **BMS 209 + BMS 291 Human Physiology (with lab)**  
Prerequisite: BMS 208 and two semesters of chemistry |  | **BIO 355 Human Genetics**  
Prerequisite: BIO 120 or permission of instructor  
**OR**  
**BIO 375 + 376 Genetics (with lab)**  
Prerequisite: BIO 120. Concurrent enrollment in BIO 376 is required  
**BMS 305 Clinical Nutrition**  
Prerequisite: BMS 290 or 251 and (CHM 232, CHM 230 or CHM 461)  
**BMS 309 Human Anatomy Lab**  
Prerequisite: B or better in BMS 208 or BMS 251 & a 3.0 cumulative GPA  
**BMS 310 Basic Pathophysiology**  
Prerequisite: BMS 212 and (BMS 290 or BMS 251 or BMS 253)  
Gen Ed Course  
Issue Course |  | **CHM 112 College Algebra (Gen Ed)**  
Prerequisite: MTH 110 or GVSU placement test  
WRT 150 Strategies in Writing (Gen Ed)  
Prerequisite: None  
Gen Ed Course  
Elective |  | **BMS 209 + BMS 291 Human Physiology (with lab)**  
Prerequisite: STA 215 and sophomore standing  
CHM 461 Biochemistry  
PHY 221 General Physics II  
Prerequisite: PHY 220  
Gen Ed Course |  | **BMS 311 Pharmacological Aspects of Biomedical Sciences**  
Prerequisite: BMS 310  
**BMS 495 SWS Concepts in Wellness**  
Prerequisite: BMS 208, 212, 290 or 291, and senior standing  
**PSY 364 Lifespan Developmental Psychology**  
Prerequisite: PSY 101 or HNR 234  
Elective  
Elective |  |
| **Total** 15 |  | **Total** 14 |  | **Total** 17* |  | **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. The Physician Assistant Studies program at GVSU is a Master’s degree which requires the completion of a nationally accredited bachelor’s degree by May 1st prior to the fall start of the program. No specific major is required.

2. These recommended courses have been found beneficial for the PAS program, though are not required. However, at least 6 credits of upper-division Biomedical Science courses (BMS 302-373, 375-494, 496-599; BIO 422: Embryology, or CMG 405/406: Cell and Molecular Biology with lab may be included in these hours).

3. Students must complete a total of two courses with a Supplemental Writing Skills (SWS) attribute.

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](http://www.gvsu.edu/clasadvising)

**CLAS Professional Advisors:**

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Julie Amon  
amonju@gvsu.edu
Declaring

1. University Application Requirements
   All Physician Assistant Studies Application Requirements
   - 5-year Rule...Human Anatomy, Human Physiology, Microbiology, and Biological Chemistry must be less than 5 years old at the time of application.

2. Program Application Requirements
   - Minimum grade of C or better in each Prerequisite course and a minimum 3.0 GPA in the following areas: Cumulative, Last 60 hours of coursework, and Prerequisites
   - Remaining prerequisites must be completed by the month of May prior to the fall start of the professional curriculum
   - Official results from the Graduate Record Exam (GRE). GVSU Code 1258...testing information available at www.ets.org.
   - Two recommendations from health professionals (GVSU recommendation form will be emailed to references provided)

Important considerations:

Physician Assistant Studies Application Requirements ~ detailed information available at www.gvsu.edu/pas
All admission documents must be completed & received on or before the September 15 application deadline

1. University Application Requirements
   - Baccalaureate degree from an accredited institution of higher education (completed May prior to the fall start program)
   - Completion of Grand Valley State University (GVSU) Graduate Application
   - $30 nonrefundable application fee is waived for those who have previously applied to GVSU
   - Copies of official transcripts sent from all institutions of higher education previously attended

2. Program Application Requirements
   - Minimum grade of C or better in each Prerequisite course and a minimum 3.0 GPA in the following areas: Cumulative, Last 60 hours of coursework, and Prerequisites
   - See notes in the box to the right relative to the 5-year rule and prerequisite course completion deadlines
   - Remaining prerequisites must be completed by the month of May prior to the fall start of the professional curriculum
   - Official results from the Graduate Record Exam (GRE). GVSU Code 1258...testing information available at www.ets.org.
   - Two recommendations from health professionals (GVSU recommendation form will be emailed to references provided)
   - Healthcare Experience (minimum hours must be completed at the time of application) Minimum 500 hours of volunteer and/or work experience in a healthcare environment with significant hands-on patient care activities. Limited hours of a job shadow with a physician assistant may be considered.
   - Students must meet all Technical Standards as outlines on the PA website at www.gvsu.edu/pas
   - International/Foreign born applicants: original/certified transcripts, official TOEFL test with minimum score of 600 or equivalent computer based score, official credential evaluation (e.g., WES, ECE), and official transcripts demonstrating 30 hours of higher education coursework completed at an established accredited U.S. institution by application deadline.

GVSU Physician Assistant Studies (M.P.A.S.)

<table>
<thead>
<tr>
<th>Prerequisite Courses (Minimum grade of “C” required)</th>
<th>School</th>
<th>Course Code / Title</th>
<th>Year</th>
<th>Grade</th>
<th>Credits</th>
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<tr>
<td>BIO 120 General Biology I</td>
<td>School</td>
<td>Course Code / Title</td>
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<tr>
<td>(GV Recommended Prerequisites: CHM 109 or 115)</td>
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<td>BIO 355 Human Genetics</td>
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<td>(GV Prerequisite: BIO 120)</td>
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<td>BMS 208 (GV Prerequisite: BIO 120) AND BMS 290/291 (GV Prerequisites: BMS 208 &amp; 2 sem of chem) OR BMS 250 &amp; 251 (GV Prerequisite: BIO 120)</td>
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<td>BMS 212/213 Introductory Microbiology w/Lab (GV Prerequisite: BIO 120 &amp; CHM 230 or 232 or 241)</td>
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<td>CHM 109 Introductory Chemistry</td>
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<td>(or CHM 115 &amp; 116)</td>
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<td>CHM 231 Introductory Organic Chemistry (or CHM 241 &amp; 242)</td>
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<td>(GV Prerequisite: CHM 109 or CHM 116)</td>
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<td>CHM 232 Biological Chemistry (or CHM 463)</td>
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<td>PHY 200 Physics for the Life Sciences (or PHY 220 &amp; 221)</td>
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<td>PSY 101 Introduction to Psychology</td>
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<td>STA 215 Introductory Applied Statistics (GV Prerequisite: MTH 110)</td>
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<td><strong>Recommended Courses:</strong></td>
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<td>BIO 328 Biomedical Ethics</td>
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<td>PSY 364 Life Span Development</td>
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Important considerations:

College of Health Professions ~ Physician Assistant Studies Graduate Office
Cook DeVos Center for Health Sciences
301 Michigan NE, Suite 164, Grand Rapids, MI 49503
Call us at 616-331-5700 or email us at chpgrad@gvsu.edu

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