### Year One

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMS 501 Seminar in Biomedical Sciences</td>
<td>1</td>
<td>Prerequisite: Admission to the program</td>
</tr>
<tr>
<td>BMS 523 Epidemiology</td>
<td>3</td>
<td>Prerequisite: Statistics</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>7</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMS 508 Advanced Physiology</td>
<td>3</td>
<td>Prerequisite: Human or comparative physiology</td>
</tr>
<tr>
<td>BMS 601 Experimental Design</td>
<td>3</td>
<td>Prerequisite: Completion of BMS501</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>9</td>
<td></td>
</tr>
</tbody>
</table>

**Elective refers to any course that can be applied toward the required 33 credits to graduate**

### Year Two

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMS 695 Thesis</td>
<td>3</td>
<td>Prerequisite: permission of graduate director</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BMS 560 Regional Human Anatomy¹</td>
<td>4</td>
<td>Prerequisite: Cadaver laboratory experience</td>
</tr>
<tr>
<td>BMS 695 Thesis</td>
<td>3</td>
<td>Prerequisite: permission of graduate director</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>10</td>
<td></td>
</tr>
</tbody>
</table>

**May substitute BMS 550**  
**May be counted for graduate credit with permission of program director**

### Master of Health Science Elective Courses

**BMS Courses**
- BMS 510 Immunology
- BMS 512 Medical Bacteriology
- BMS 540 Molecular Epidemiology of Infectious Disease
- BMS 550 Human Histology²
- BMS 580 Endocrine Physiology
- BMS 655 Advanced Human Anatomy
- BMS 679 Clinical Practicum
- BMS 680 Special Topics
- BMS 693 Project in BMS
- BMS 696 Thesis Continuation
- BMS 699 Graduate Research in BMS
- BMS 413 Medical Bacteriology Laboratory²
- BMS 415 Nutrition and Physical Performance²
- BMS 427 Neuroanatomy²
- BMS 428 Neuroscience²
- BMS 431 Medical Virology²
- BMS 432 Medical Mycology²
- BMS 433 Medical Parasitology²

**Outside BMS**
- AHS 692 Clinical Research Trials Practicum³
- CMB 505 Advanced Cell Biology
- CMB 506 Advanced Molecular Biology
- CMB 610 Foundations in Biotechnology
- CMB 620 Cell and Tissue Culture
- CMB 626 Advanced Nucleic Acids Laboratory
- CMB 696 Colloquium in Cell and Molecular Biology
- CMB 697 Colloquium in Biotechnology
- PA 535 Grant Writing³
- PHM 659 Regulatory Affairs & Project Management (MSU)³
- PHM 868 Integrated Research Study Design & Informatics (MSU)³
- PSM 650 Ethics & Professionalism in Applied Science³
- STA 610 Applied Statistics for Health Professions
- STA 622 Statistical Methods for Biologists

**Clinical Research Trials Management Certificate (optional)**
- PSM 650 Ethics and Professionalism in Applied Science
- PHM 659 (MSU) Regulatory Affairs and Project Management
- HM 868 (MSU) Integrated Research Study Design and Informatics

**And one of the following**
- AHS 692 Clinical Research Trials Practicum
- PA 535 Grant Writing
- STA 610 Applied Statistics for Health Professions

---

¹May substitute for the BMS 560 requirement
²May be counted for graduate credit with permission of program director
³Part of the Clinical Research Trials Management certificate program
Master of Health Science

We serve students who are interested in:
- Ph.D. programs
- Medical, dental or other professional schools
- Teaching at the community college level
- Research in the sciences
- Scientific or health-related careers

Admission Criteria
- Course work in anatomy, physiology, microbiology, chemistry, and statistics
- Overall grade point average of 3.0 or better
- GRE, MCAT, or DAT scores
- 3 letters of recommendation
- Personal statement with clear indication of interests and goals

Previous thesis research/projects in:
- Biomedical Sciences
- Movement Science (exercise physiology)
- Chemistry
- St. Mary’s Special Immunology Services (HIV clinic)
- St. Mary’s Infection Control
- Van Andel Research Institute
- Hospital in Gambia, West Africa
- Nicaragua
- Kent county public health department
- Spectrum Health

Biomedical Science faculty research interest in:
- Neurobiology
- Stem cell research
- Prostate cancer
- Immunology
- Virology
- Microbiology
- Sensory systems
- Anatomy
- Cardiovascular function
- Epidemiology
- Nutrition
- Physical anthropology

The Biomedical Sciences Department office is located in 212 Henry, 616-331-3318
Online at: http://www.gvsu.edu/bms
Or contact Derek Thomas, Graduate Program Director at thomasde@gvsu.edu or 616-331-2812