## Bioengineering Undergraduate Curriculum
### Bioengineering Health Care Informatics (BHI)

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Semester 2</th>
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<tbody>
<tr>
<td>MATH 113  Analytic Geom &amp; Calc I 4</td>
<td>MATH 114 Analytic Geom &amp; Calc. II 4</td>
</tr>
<tr>
<td>ENGR 107 Intro to Engineering 2</td>
<td>PHYS 160 Univ Physics I 3</td>
</tr>
<tr>
<td>CS 112 Intro to Computer Programming 4</td>
<td>PHYS 161 Univ Physics I Lab 1</td>
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<tr>
<td>ENGH 101 Composition 3</td>
<td>BENG 101 Intro to Bioengineering 3</td>
</tr>
<tr>
<td>ECON 103 Cont. Microecon. Principles 3</td>
<td>CS 222 Comp. Progr. for Engineers 3</td>
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<tr>
<th>Semester 3</th>
<th>Semester 4</th>
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<tbody>
<tr>
<td>MATH 203 Linear Algebra 3</td>
<td>BENG 220 Physical Bases of Biomed. Syst. 3</td>
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<tr>
<td>PHYS 260 University Physics II 3</td>
<td>BIOL 213 Cell Structure and Function 4</td>
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<tr>
<td>PHYS 261 University Physics II Lab 1</td>
<td>IT 214 Database Fundamentals 3</td>
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<tr>
<td>*CHEM 251 General Chem. for Engr. 4</td>
<td>HAP 301 Healthcare Delivery 3</td>
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<tr>
<td>Literature Elective** 3</td>
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<thead>
<tr>
<th>Semester 5</th>
<th>Semester 6</th>
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<tbody>
<tr>
<td>BENG 320 Bioengineering Signals &amp; Sys.3</td>
<td>BENG 301 BE Measurements 3</td>
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<tr>
<td>BENG 380 Intro to Circuits &amp; Electronics 3</td>
<td>BENG 302 BE Measurements Lab 1</td>
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<tr>
<td>BENG 381 Circuits and Electronics Lab 1</td>
<td>BENG 304 Model. Control of Physiol. Sys. 3</td>
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<tr>
<td>BENG 313 Physiology for Engineers 3</td>
<td>BENG 322 Health Data Challenges 3</td>
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<tr>
<td>STAT 344 Prob &amp; Statistics for Engr. 3</td>
<td>HAP 360 Intro to Healthcare Info. Systems 3</td>
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<tr>
<td>Fine Arts Elective** 3</td>
<td>COMM 100 Public Speaking 3</td>
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<tr>
<th>Semester 7</th>
<th>Semester 8</th>
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<tbody>
<tr>
<td>BENG 420 Bioinformatics for Engineers 3</td>
<td>BENG 495 BE Senior Seminar II 1</td>
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<tr>
<td>BENG 491 BE Senior Seminar I 1</td>
<td>Technical Elective 3</td>
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<tr>
<td>BENG 492 Senior Adv. Design Project I 2</td>
<td>Technical Elective 3</td>
</tr>
<tr>
<td>Global Understanding Elective** 3</td>
<td>BENG 493 Senior Adv. Design Project II 2</td>
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<tr>
<td>Technical Elective 3</td>
<td>HIST 100 History of Western Civilization</td>
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<tr>
<td>ENGH 302 Advanced Composition 3</td>
<td>OR HIST 125 Intro to World History 3</td>
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** Students select from lists of general education courses which are university approved to fulfill requirements in literature, global education, and fine arts.

**Advising:** All Bioengineering students are assigned to a faculty member, who serves as an academic advisor. Students are required to see their advisor prior to course registration each semester. GMU students interested in Bioengineering who have not declared a major or are considering transferring should contact the Bioengineering Program Office.