BIOPHYSICS, B.S.

Requirements
Requires 27.5 hours in physics and must include the following courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 111</td>
<td>Mechanics Waves and Heat</td>
<td>4</td>
</tr>
<tr>
<td>or PHY 113</td>
<td>General Physics I</td>
<td></td>
</tr>
<tr>
<td>or PHY 123</td>
<td>General Physics I Honors</td>
<td></td>
</tr>
<tr>
<td>PHY 114</td>
<td>General Physics II</td>
<td>4</td>
</tr>
<tr>
<td>PHY 215</td>
<td>Elementary Modern Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHY 230</td>
<td>Electronics</td>
<td>3</td>
</tr>
<tr>
<td>PHY 262</td>
<td>Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHY 265</td>
<td>Intermediate Laboratory I</td>
<td>1</td>
</tr>
<tr>
<td>PHY 266</td>
<td>Intermediate Laboratory II</td>
<td>1</td>
</tr>
<tr>
<td>PHY 381</td>
<td>Research (for a minimum of 1.5 hours)**</td>
<td>1.5-3</td>
</tr>
</tbody>
</table>

Select two of the following: 6-8

- PHY 307 Biophysics
- & PHY 325 and Biophysical Methods Laboratory
- PHY 320 Physics of Biological Macromolecules
- & PHY 323 and Computational Biophysics Laboratory
- PHY 341 Thermodynamics and Statistical Mechanics*
  or CHM 341 Physical Chemistry I
- PHY 385 Bioinformatics

Co-Requirements

- MST 112 Calculus with Analytic Geometry II | 4
- MST 205 Applied Multivariable Mathematics | 4
- or MST 113 Multivariable Calculus
  & MST 251 and Ordinary Differential Equations
- CHM 111 College Chemistry I
  & 111L and College Chemistry I Lab | 4
- CHM 122 Organic Chemistry I
  & 122L and Organic Chemistry I Lab | 4
- CHM 280 College Chemistry II | 3
- BIO/CHM 370 Biochemistry I: Macromolecules and Metabolism | 3

Select two of the following: 8

- BIO 114 Comparative Physiology
- BIO 213 Genetics and Molecular Biology
- BIO 214 Cellular Biology

* Substitutions for PHY 341 and PHY 381 will count toward the required hours in physics.

** Students may substitute CHM 391/CHM 392 or BIO 391/BIO 392/BIO 393/BIO 394 for PHY 381 in consultation with their adviser. Substitutions for PHY 341 and PHY 381 will count toward the required hours in physics.

Honors

Highly qualified majors are invited by the department to apply for admission to the honors program in physics through the major adviser. To be graduated with the designation "Honors in Physics," students must:

- pass PHY 381
- write a paper on the results of the research in that course
- pass an oral exam on the research and related topics given by a committee of three physics faculty members
- obtain a GPA of at least 3.3 in physics and 3.0 overall

Students are advised to complete math requirements as early as possible.