Physics  

BA Standard Option  

49-50 credits  

(Major Code: 084, Concentration Code: 08A)  

BA/MA Program (Major Code: 085)  

Courses Required for Major  

<table>
<thead>
<tr>
<th>Number</th>
<th>Title</th>
<th>Credits</th>
<th>Perspectives</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phys 145.4</td>
<td>Principles of Physics I</td>
<td>4</td>
<td>AoK: NS</td>
</tr>
<tr>
<td>Phys 145.1</td>
<td>Principles of Physics I Laboratory</td>
<td>1</td>
<td>AoK: NS-L</td>
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<tr>
<td>Phys 146.4</td>
<td>Principles of Physics II</td>
<td>4</td>
<td>AoK: NS</td>
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<tr>
<td>Phys 146.1</td>
<td>Principles of Physics II Laboratory</td>
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<td>AoK: NS-L</td>
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<tr>
<td>Phys 222</td>
<td>Optics</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Phys 225</td>
<td>Solid State Electronics</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Phys 233</td>
<td>Intermediate Methods of Math Physics I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Phys 234</td>
<td>Intermediate Methods of Math Physics II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Phys 235</td>
<td>Classical Physics Laboratory</td>
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<td></td>
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<tr>
<td>Phys 237</td>
<td>Mechanics</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Phys 242 / 243</td>
<td>Thermodynamics / Thermodynamics and Statistical Mechanics</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Phys 260</td>
<td>Introduction to Modern Physics</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Phys 310</td>
<td>Electromagnetism 1</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Phys 311</td>
<td>Electromagnetism 2</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Phys 365</td>
<td>Principles of Quantum Mechanics</td>
<td>4</td>
<td></td>
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<tr>
<td>Phys 377</td>
<td>Modern Physics Laboratory</td>
<td>2</td>
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</table>

Math Prerequisite (needed for course number in parentheses)  

<table>
<thead>
<tr>
<th>Number</th>
<th>Title</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>Math 151 (for Phys 145)</td>
<td>Calculus/Differentiation &amp; Integration</td>
<td>4</td>
</tr>
<tr>
<td>Math 152 (for Phys 146)</td>
<td>Calculus/Integration &amp; Infinite Series</td>
<td>4</td>
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</tbody>
</table>

OR  

<table>
<thead>
<tr>
<th>Number</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math 141 (for Phys 145)</td>
<td>Calculus/Differentiation</td>
<td>3</td>
</tr>
<tr>
<td>Math 142 (for Phys 146)</td>
<td>Calculus/Integration</td>
<td>3</td>
</tr>
</tbody>
</table>

| Math 201 (for Phys 233) | Calculus                                 | 4      |

AoK = Area of Knowledge  

NS = Natural Science  

NS-L = Natural Science with Lab (only if including the 4 credit related lecture course)