## Physics Education (CPHB)

### Freshman

**Fall**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1100 English Composition I</td>
<td>3</td>
<td>Core History II</td>
<td>3</td>
</tr>
<tr>
<td>Core History I</td>
<td>3</td>
<td>Humanities Core</td>
<td>3</td>
</tr>
<tr>
<td>Core Fine Arts</td>
<td>3</td>
<td>ENGL 1120 English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1610 Calculus I or 1617 Honors Calculus I</td>
<td>4</td>
<td>EDUC 1010 Orientation to Teacher Education</td>
<td>0</td>
</tr>
<tr>
<td>Core Social Science</td>
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</tbody>
</table>

### Hours

16

### Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1607 Honors Physics I or 1600 Engineering Physics I</td>
<td>4</td>
</tr>
</tbody>
</table>

### Sophomore

**Fall**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1030 Fundamentals Chemistry I</td>
<td>3</td>
<td>CHEM 1040 Fundamental Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1031 Fundamental Chemistry I Laboratory</td>
<td>1</td>
<td>CHEM 1041 Fundamental Chemistry II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>Core Literature</td>
<td>3</td>
<td>MATH 2650 Linear Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MATH 2630 Calculus III or 2637 Honors Calculus III</td>
<td>4</td>
<td>BIOL 1020 Principles of Biology</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 1617 Honors Physics II or 1610 Engineering Physics II</td>
<td>4</td>
<td>BIOL 1021 Principles of Biology Laboratory</td>
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<tr>
<td>PHYS 2300 Physics Laboratory Skills</td>
<td></td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>PHYS 2200 Introductory Quantum Physics and Relativity</td>
<td></td>
<td>3</td>
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### Hours

15

### Junior

**Fall**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 1000 Public Speaking</td>
<td>3</td>
<td>Core Social Science</td>
<td>3</td>
</tr>
<tr>
<td>RSED 3000 Diversity and Exceptionality of Learners</td>
<td>3</td>
<td>Physics Elective (3000-5000 level )</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 3100 Intermediate Electricity and Magnetism</td>
<td></td>
<td>3</td>
<td>CTSE 4090 Curriculum and Teaching I: Science</td>
</tr>
<tr>
<td>FOUN 3000 Diversity of Learners and Settings</td>
<td>3</td>
<td>CTRD 5000 Language and Literacy in the Content Areas</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 2100 Intermediate Mechanics</td>
<td>3</td>
<td>PHYS 3200 Statistical Thermodynamics</td>
<td>3</td>
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<tr>
<td></td>
<td></td>
<td>PHYS 4100 Fundamentals of Quantum Mechanics</td>
<td>3</td>
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</tbody>
</table>

### Hours

15

### Senior

**Fall**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOUN 3120 Adolescent Development, Learning, Motivation and Assessment II</td>
<td>3</td>
<td>CTSE 5240 Clinical Residency Seminar in Science Teaching</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 4200 Fundamental Experiments in Physics</td>
<td>2</td>
<td>CTSE 4920 Clinical Residency</td>
<td>11</td>
</tr>
<tr>
<td>CTSE 5000 Technology in Science Education</td>
<td>2</td>
<td>UNIV 4AA0 Achieve the Creed</td>
<td>0</td>
</tr>
<tr>
<td>Course</td>
<td>Hours</td>
<td></td>
<td></td>
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<tr>
<td>------------------------------------------------</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>CTSE 5100 Curriculum and Teaching II: Science(^1,3)</td>
<td>4</td>
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<tr>
<td>Physics Elective (3000-5000 level)</td>
<td>6</td>
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</table>

Total Hours: 127

1. Prerequisite: Admission to Teacher Education.
2. Prerequisite: Admission to Clinical Residency (application for Clinical Residency is one year in advance).
3. Prerequisite for Admission to Clinical Residency.

Physics Elective: See advisor for approved course listing.