BS in Physics - Chemical Physics Option

A student majoring in physics may select a chemical physics option.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select one of the following combinations:</td>
<td>10</td>
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</tbody>
</table>

**Combination A**

- PHYS 213
- PHYS 214
  - General College Physics I
  - and General College Physics II

**Combination B (preferred)**

- PHYS 313
- PHYS 315
  - Physics for Scientists I
  - and University Physics Lab I
- PHYS 314
- PHYS 316
  - Physics for Scientists II
  - and University Physics Lab II
- PHYS 551
  - Topics in Modern Physics
  - 3
- PHYS 621
  - Analytical Mechanics
  - 3
- PHYS 631
  - Electricity and Magnetism
  - 3
- PHYS 641
  - Thermophysics
  - 3
- PHYS 651
  - Quantum Mechanics I
  - 3
- MATH 555
  - Differential Equations I
  - 3

Select one of the following MATH courses

- MATH 511
  - Linear Algebra
- MATH 545
  - Integration Techniques and Applications
- MATH 547
  - Advanced Calculus I
- MATH 757
  - Partial Differential Equations for Engineers

Select 10 credit hours in chemistry

Select three semesters from the following:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>LABORATORY</th>
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<tbody>
<tr>
<td>PHYS 516</td>
<td>Advanced Physics Laboratory</td>
</tr>
<tr>
<td>PHYS 517</td>
<td>Electronics Laboratory</td>
</tr>
<tr>
<td>PHYS 616</td>
<td>Computational Physics Laboratory</td>
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</table>

Select four additional courses in chemistry beyond the 211–212 sequence

Total Credit Hours: 47

With departmental approval, the chemistry courses could substitute for required courses covering similar topics.