B.S. in Physics Course Requirements

Student: ________________________
Advisor: _______________________
Date: ______________

(Indicate semester taken.)

CHEM 111
CHEM 112
MATH 170 (Calculus I)
MATH 175 (Calculus II)
MATH 275 (Calculus III)
MATH 240 (Linear Algebra)
MATH 360 (Diff Eqs)
PHYS 461 (Math Phys I)
PHYS 462 (Math Phys II)
PHYS 211 (Engineering Physics I)
PHYS 212 (Engineering Physics II)
PHYS 213 (Eng. Phys Lab I)
PHYS 214 (Eng. Phys Lab II)
PHYS 301 (Modern)
PHYS 313 (Intermediate Lab)
PHYS 403 (Advanced Modern I)
PHYS 404 (Advanced Modern II)
PHYS 406 (Senior Project)
PHYS 416 (Intro to Nuc. Meas.)
PHYS 421 (E&M I)
PHYS 422 (E&M II)
PHYS 483 (Theoretical Mechanics)
PHYS 492 (Colloquium)

6 ADDITIONAL 400–LEVEL PHYS CREDITS

Note: PHYS481 can be substituted for PHYS406 on approval of Chair.

Note: MATH240 is replacing MATH 230 (2 credits) and MATH330 effective Fall 2008
Goal Classes for B.S. in Physics

(Indicate course and semester taken.)

Goal 1 (written English) ___________________
Goal 2 (spoken English) ___________________
Goal 3 __________________

Goal 4 __________________
Goal 5 __________________

or
12 hours in physical sciences or 12 hours in biological sciences

Two of the following:

Goal 6 __________________
Goal 7 __________________
Goal 8 __________________

Three of the following:

Goal 9 __________________
Goal 10A __________________
Goal 10B __________________
Goal 11 __________________
Goal 12 __________________
Semesters when classes are normally offered

**Required**

- CHEM 111  
  ________ Fall, Spring
- CHEM 112  
  ________ Spring, Summer
- MATH 170 (Calculus I)  
  ________ Fall, Spring, Summer
- MATH 175 (Calculus II)  
  ________ Fall, Spring, Summer
- MATH 275 (Calculus III)  
  ________ Fall, Spring
- MATH 240 (Linear Algebra)  
  ________ Fall, Spring
- MATH 360 (Diff Eqs)  
  ________ Fall, Spring, Summer on demand
- PHYS 461 (Math Phys I)  
  ________ Fall
- PHYS 462 (Math Phys II)  
  ________ Spring
- PHYS 211 (Engineering Physics I)  
  ________ Fall
- PHYS 212 (Engineering Physics II)  
  ________ Spring
- PHYS 213 (Eng. Phys Lab I)  
  ________ Fall
- PHYS 214 (Eng. Phys Lab II)  
  ________ Spring
- PHYS 301 (Modern)  
  ________ Fall
- PHYS 313 (Intermediate Lab)  
  ________ Fall
- PHYS 403 (Advanced Modern I)  
  ________ Spring
- PHYS 404 (Advanced Modern II)  
  ________ Fall
- PHYS 406 (Senior Project)  
  ________ Fall, Spring
- PHYS 416 (Intro to Nuc. Meas.)  
  ________ Spring
- PHYS 421 (E&M I)  
  ________ Fall
- PHYS 422 (E&M II)  
  ________ Spring
- PHYS 483 (Theoretical Mechanics)  
  ________ Fall
- PHYS 492 (Colloquium)  
  ________ Fall, Spring

**Electives, not required**

- PHYS442(Solid State)  
  ________ Even Falls
- PHYS452(Optics)  
  ________ Even Springs
- PHYS415(Stat. Phys)  
  ________ Odd Falls
- PHYS453(Astro)  
  ________ Odd Springs
- PHYS488(Radiobio)  
  ________ Even Falls
<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>PHYS100</td>
<td>Fall, Spring</td>
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<td>PHYS101</td>
<td>Fall, Spring</td>
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<td>PHYS111</td>
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<td>PHYS112</td>
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<td>PHYS114</td>
<td>Spring</td>
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<td>PHYS152</td>
<td>Fall, Spring, Summer</td>
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<td>PHYS153</td>
<td>Fall, Spring, Summer</td>
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<td>PHYS325</td>
<td>Fall, Spring</td>
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<td>PHYS400</td>
<td>Spring</td>
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<tr>
<td>PHYS405/505</td>
<td>on demand</td>
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<tr>
<td>PHYS481 (Physics of Music)</td>
<td>Fall 2008</td>
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<tr>
<td>PHYS299</td>
<td>Spring</td>
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Standard Schedule for B.S. in Physics

Fall of 1st Year

CHEM111 5
MATH170 4

Spring of 1st Year

CHEM112 4
MATH175 4
MATH240 – Linear Algebra 3

Fall of 2nd Year

Math 275 4
PHYS211 4
PHYS213 1

Spring of 2nd Year

PHYS212 4
PHYS214 1
MATH360 3

Fall of 3rd Year

PHYS301 - Modern Physics 3
PHYS313 – Intermediate Lab I 2
PHYS461 – Math Physics I 3
PHYS483 –Theoretical Mechanics 4

Spring of 3rd Year

PHYS403 – Advanced Modern Physics I 3
PHYS462 – Math Physics II 3
PHYS416 –Rad. Detect and Meas 3

Fall of 4th Year

PHYS404 – Advanced Modern II 3
PHYS421 – E&M I 3
PHYS406 – Advanced Physics Lab II 2
Spring of 4\textsuperscript{th} Year

PHYS422 – E&M II  
PHYS492 – Colloquium