<table>
<thead>
<tr>
<th>Sem</th>
<th>Physics Department Requirements</th>
<th>College of Science Requirements</th>
<th>Credits</th>
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<tbody>
<tr>
<td>1</td>
<td>Phys 172(H) (4 cr.)** Mechanics</td>
<td>Ma 165 (4 cr.) Calculus I</td>
<td>15-18</td>
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<td></td>
<td>Chm 115 (4 cr.)</td>
<td>CS 177/159/180 (3 - 4 cr.)</td>
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<td>¤Sci 130 (1 cr.)</td>
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<td>2</td>
<td>Phys 272(H) (4 cr.)*** E&amp;M</td>
<td>Ma 166 (4 cr.) Calculus II</td>
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<td>Chm 116 (4 cr.)</td>
<td>¤Engl 106 or 108 (4 or 3 cr.)</td>
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<td>3</td>
<td>Phys 312 (3 cr.) (Mathematical Physics I)</td>
<td>Ma 261(4 cr.) Calculus III</td>
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<td>Phys 344 (4 cr.) (Modern Physics)</td>
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<td>Phys 340 (1 cr.) (Modern Physics Lab)</td>
<td>Foreign Language/ Culture/ Diversity (3 cr)</td>
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<td>4</td>
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<td>Foreign Language/ Culture/ Diversity (3 cr)</td>
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<td>Phys 422 (3 cr.) (Optics)</td>
<td>Great Issues (3 cr.)</td>
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<td>®Phys235 (1cr)</td>
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<td>Careers In Physics</td>
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<td>Phys 410 (3 cr.) Mechanics</td>
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<td>Phys 460 (3 cr.) Quantum</td>
<td>Gen Ed (3 cr.)</td>
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<td>Phys 450 (2 cr.) Optics Lab</td>
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<td>Phys 430 (3 cr.) Intermediate E&amp;M</td>
<td>Multidisciplinary (3 cr.)</td>
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<td>Writing &amp; Presentation (3 cr.)</td>
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<td>7</td>
<td>Phys 416 (4 cr) Thermal &amp; Statistical Mechanics</td>
<td>Statistics (301, 350, 503, 511)</td>
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<td>Phys 593 (23 cr.)</td>
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<td>Gen Ed (3 cr.)</td>
<td>15</td>
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**Phys 312 = Phys 290F; Phys 340= Phys 342L

± Foreign Language and English Composition are interchangeable in terms of when they are taken.

**Phys (152 + 290D) or Phys (162, 163) are acceptable substitutes

***Phys 241, 261, with Phys (252) or Phys 271 with 271L are acceptable substitutes

€ MANDATORY. To be taken in Semester 1 or 2

® Optional but Strongly Recommended.