### Bachelor of Science in Physics - Science Teaching Specialization (Fall 2013)

<table>
<thead>
<tr>
<th>Student ID#</th>
<th>Minimum GPA</th>
<th>Anticipated Graduation Term</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2.00</td>
<td>04/03/13</td>
</tr>
</tbody>
</table>

#### Freshman Year Fall Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Prerequisites/Comments</th>
<th>CR</th>
<th>SEM</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 109</td>
<td>First Year Seminar (IGR 1)</td>
<td>none</td>
<td>2</td>
<td>F13</td>
<td></td>
</tr>
<tr>
<td>ENGL 101</td>
<td>Composition I (SGR 1)</td>
<td>none</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 112</td>
<td>General Chemistry I</td>
<td></td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 112L</td>
<td>General Chemistry I Lab</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC 101</td>
<td>General Psychology (SGR 3)</td>
<td>satisfies SGR #3</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SGR #4</td>
<td>Humanities/Arts Diversity</td>
<td>must satisfy A&amp;S Humans</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Freshman Year Spring Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Prerequisites/Comments</th>
<th>CR</th>
<th>SEM</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPCM 101</td>
<td>Fundamentals of Speech (SGR 2)</td>
<td>none</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chem114 or 120</td>
<td>General Chem II or Elem. Org. Chem</td>
<td>Chem 112</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chem114 or 120</td>
<td>Gen. Chem II or Elem. Org. Chem Lab</td>
<td>Chem 112</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 123</td>
<td>Calculus I (SGR 5)</td>
<td>MATH 115 or Placement</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SGR #4</td>
<td>Humanities/Arts Diversity</td>
<td>must satisfy A&amp;S Humans</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDFN 338</td>
<td>Foundations of American Education</td>
<td></td>
<td>2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Sophomore Year Fall Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Prerequisites/Comments</th>
<th>CR</th>
<th>SEM</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS211/211L</td>
<td>University Physics I (SGR 6)</td>
<td>MATH 121</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 125</td>
<td>Calculus II</td>
<td></td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SGR #3</td>
<td>Social Science/Diversity</td>
<td>must satisfy A&amp;S Soc Sci Requirement</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPED 405</td>
<td>Educating Secondary Students with Disabilities</td>
<td></td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDFN 365</td>
<td>Computer Based Tech. and Learning</td>
<td></td>
<td>2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Sophomore Year Spring Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Prerequisites/Comments</th>
<th>CR</th>
<th>SEM</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS213/213L</td>
<td>University Physics II (SGR 6)</td>
<td>PHYS 211</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 225</td>
<td>Calculus III</td>
<td></td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL201 or 277</td>
<td>Composition II or Tech. Writing in Eng!</td>
<td>ENGL 101 and PHYS 109 (SGR #1)</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANTH 421</td>
<td>Indians of North America (IGR#2)</td>
<td>meets CAS soc., sci. req. &amp; Ed. Bloc</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SEED 450</td>
<td>Reading and Content Literacy</td>
<td></td>
<td>2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Junior Year Fall Course

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Prerequisites/Comments</th>
<th>CR</th>
<th>SEM</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 331</td>
<td>Measurement Theory and Exp. Design</td>
<td>PHYS113 or PHYS213 AW (adv. writing req.)</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 332</td>
<td>Introduction to Modern Physics</td>
<td>PHYS 213 or PHYS 113</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 321</td>
<td>Differential Equations</td>
<td></td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIO 101/101L</td>
<td>Biology Survey I and Lab</td>
<td></td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHIL 200 or 331</td>
<td>Logic or Philosophy of Science</td>
<td>satisfies CAS Humanities Req.</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDER 415</td>
<td>Educational Assessment</td>
<td></td>
<td>2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Junior Year Spring Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Prerequisites/Comments</th>
<th>CR</th>
<th>SEM</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 337</td>
<td>Foundations of Health Physics</td>
<td>PHYS 331</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS187/187L</td>
<td>Intro to Astronomy II and Lab</td>
<td>PHYS185/185L Intro to Astronomy I and Lab</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIO 103/103L</td>
<td>Biology Survey I and Lab</td>
<td></td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EPSY 302</td>
<td>Educational Psychology</td>
<td>meets A&amp;S Soc. requirement</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDFN 475</td>
<td>Human Relations</td>
<td></td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Senior Year Fall Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Prerequisites/Comments</th>
<th>CR</th>
<th>SEM</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 421</td>
<td>Electromagnetism</td>
<td>Math 321 and PHYS 213</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>or PHYS 451</td>
<td>Classical Mechanics (offered in spring)</td>
<td>MATH 321</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>or PHYS 471</td>
<td>Quantum Mechanics (offered in spring)</td>
<td>PHYS 331 and MATH 321</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SEED 410</td>
<td>Social Foundations, Manag. &amp; Law</td>
<td></td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SEED 420/420L</td>
<td>Teaching Methods and Lab</td>
<td></td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SEED 413</td>
<td>Science Methods</td>
<td></td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SEED 314</td>
<td>Supervised Clinical/Field Experience</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SGR courses</td>
<td></td>
<td></td>
<td>16</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Senior Year Spring Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Prerequisites/Comments</th>
<th>CR</th>
<th>SEM</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 490</td>
<td>Seminar</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDFN 427</td>
<td>Middle School: Phil. &amp; Application</td>
<td></td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SEED 488</td>
<td>Student Teaching</td>
<td></td>
<td>8</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Globalization (G) – a SGR, IGR or College Social Science course must also satisfy Globalization Requirement

#### College of Arts and Sciences Requirements

---

Information Subject to Change. This checksheet is not a contract.
# Bachelor of Science in Physics - Science Teaching Specialization (Fall 2013)

## System Gen Ed Requirements (SGR) (30 credits, Complete First 2 Years)

<table>
<thead>
<tr>
<th>SGR Goal</th>
<th>Written Communication (6 credits)</th>
<th>6</th>
<th>SEM</th>
<th>GR</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 101</td>
<td>Composition I (SGR 1) none</td>
<td>3</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>ENGL201or277</td>
<td>Composition II or Tech. Writing in Eng</td>
<td>3</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

## Bachelor of Arts and Sciences BS Requirements (39 credits)

<table>
<thead>
<tr>
<th>39 Credits</th>
<th>39</th>
<th>SEM</th>
<th>GR</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 316/316L</td>
<td>Measurement Theory and Exp. Design</td>
<td>PHYS113 or PHYS213 AW</td>
<td>adv. writing req</td>
</tr>
<tr>
<td>PHYS 331</td>
<td>Introduction to Modern Physics</td>
<td>PHYS 213 or PHYS 113</td>
<td></td>
</tr>
<tr>
<td>PHYS 490</td>
<td>Seminar</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 125</td>
<td>Calculus II</td>
<td>MATH 123</td>
<td></td>
</tr>
<tr>
<td>MATH 225</td>
<td>Calculus III</td>
<td>MATH 125</td>
<td></td>
</tr>
<tr>
<td>MATH 321</td>
<td>Differential Equations</td>
<td>MATH 125</td>
<td></td>
</tr>
<tr>
<td>CHEM 112</td>
<td>General Chemistry I</td>
<td>MATH 102, CHEM 112L</td>
<td></td>
</tr>
<tr>
<td>CHEM 112L</td>
<td>General Chemistry I Lab</td>
<td>CHEM 112</td>
<td></td>
</tr>
<tr>
<td>CHEM114Lor120</td>
<td>Gen. Chem II or Elem. Org. Chem</td>
<td>CHEM 112</td>
<td></td>
</tr>
<tr>
<td>CHEM114Lor120</td>
<td>Gen. Chem II or Elem. Org. Chem Lab</td>
<td>CHEM 112</td>
<td></td>
</tr>
<tr>
<td>PHYS 421</td>
<td>Electromagnetism</td>
<td>Math 321 and PHYS 213</td>
<td></td>
</tr>
<tr>
<td>or PHYS 451</td>
<td>Classical Mechanics</td>
<td>MATH 321</td>
<td></td>
</tr>
<tr>
<td>or PHYS 471</td>
<td>Quantum Mechanics</td>
<td>PHYS 331 and MATH 321</td>
<td></td>
</tr>
<tr>
<td>PHYS 337</td>
<td>Foundations of Health Physics</td>
<td>PHYS 331</td>
<td></td>
</tr>
<tr>
<td>PHYS187/187L</td>
<td>Intro to Astronomy I and Lab</td>
<td>PHYS187/187L</td>
<td></td>
</tr>
<tr>
<td>orPhys185/185L</td>
<td>Intro to Astronomy I and Lab</td>
<td>orPhys185/185L</td>
<td></td>
</tr>
</tbody>
</table>

## Institutional Graduation Requirements (IGRs) (5 credits)

<table>
<thead>
<tr>
<th>IGR Goal</th>
<th>First Year Experience</th>
<th>2</th>
<th>F13</th>
<th>0</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 109</td>
<td>First Year Seminar (IGR 1) none</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>IGR Goal</th>
<th>Cultural Awareness/Responsibility</th>
<th>3</th>
<th>0</th>
<th>0</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 421</td>
<td>Indians of North America (IGR#2) meets CAS soc.. sci. req. &amp; Ed. Bloc</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Globalization Requirement

<table>
<thead>
<tr>
<th>SGR or #4</th>
<th>Globalization Courses</th>
<th>Must satisfy SGR or #4</th>
<th>3</th>
<th>0</th>
<th>0</th>
</tr>
</thead>
</table>

## Advanced Writing Requirement

<table>
<thead>
<tr>
<th>2 Credits</th>
<th>2</th>
<th>0</th>
<th>0</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 316/316L</td>
<td>Measurement Theory and Exp. Design</td>
<td>PHYS113 or PHYS213 AW (adv. writing req)</td>
<td></td>
</tr>
</tbody>
</table>

## College of Arts and Sciences Bachelor of Science Graduation Requirements

| TOTAL CREDITS | 120 |
### Natural Science - Physical Science

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
<th>SEM</th>
<th>GR</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 101</td>
<td>Social Science/Diversity</td>
<td>3</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>SGR #3</td>
<td>Composition II or Tech. Writing in Engl</td>
<td>3</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>PHYS 316/316L</td>
<td>Measurement Theory and Exp. Design</td>
<td>3</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>PHYS 331</td>
<td>Introduction to Modern Physics</td>
<td>3</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

### Natural Science - Biological Science

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
<th>SEM</th>
<th>GR</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 101/101L</td>
<td>Biology Survey I and Lab</td>
<td>3</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>BIO 103/103L</td>
<td>Biology Survey I and Lab</td>
<td>3</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>PHYS 412</td>
<td>Electromagnetism</td>
<td>4</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>PHYS 337</td>
<td>Foundations of Health Physics</td>
<td>3</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

### Humanities

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
<th>SEM</th>
<th>GR</th>
</tr>
</thead>
<tbody>
<tr>
<td>SGR #4</td>
<td>Humanities/Arts Diversity</td>
<td>3</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>SGR #4</td>
<td>Humanities/Arts Diversity</td>
<td>3</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>PHYS 341/343</td>
<td>Thermo. / Stat. Mech.</td>
<td>3</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>PHYS 451</td>
<td>Classical Mechanics (offered in spring)</td>
<td>3</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>PHYS 471</td>
<td>Quantum Mechanics (offered in spring)</td>
<td>3</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

### Social Sciences

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
<th>SEM</th>
<th>GR</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 101</td>
<td>General Psychology (SGR 3)</td>
<td>3</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>SGR #3</td>
<td>Social Science/Diversity</td>
<td>3</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>ANTH 421</td>
<td>Indians of North America (IGR#2)</td>
<td>3</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>EPSY 302</td>
<td>Educational Psychology</td>
<td>3</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

### Upper Division Credits (33 total)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
<th>SEM</th>
<th>GR</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 3113 or PHYS 213</td>
<td>AW (adv. writing req.)</td>
<td>2</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>PHYS 213 or PHYS 113</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>PHYS 490</td>
<td>Seminar</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>PHYS 421</td>
<td>Electromagnetism</td>
<td>4</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>PHYS 331</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>PHYS 341/343</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>PHYS 451</td>
<td>Classical Mechanics</td>
<td>3</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>PHYS 331</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>MATH 321</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>PHYS 331 and MATH 321</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>ANTH 421</td>
<td>Indians of North America (IGR#2)</td>
<td>3</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>EDEN 338</td>
<td>Foundations of American Education</td>
<td>2</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>SPED 405</td>
<td>Educating Secondary Students with Disabilitie</td>
<td>2</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>EDEN 365</td>
<td>Computer Based Tech. and Learning</td>
<td>2</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>SEED 450</td>
<td>Reading and Content Literacy</td>
<td>2</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>EDER 415</td>
<td>Educational Assessment</td>
<td>2</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>EDFN 475</td>
<td>Human Relations</td>
<td>3</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Course Title</td>
<td>Prerequisites/Comments</td>
<td>Credits</td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------------------------------------------------------------------------</td>
<td>----------------------------------------------------------------------------------------</td>
<td>---------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 101-101L - Survey of Physics *(COM) and Lab</td>
<td>Credit will not be allowed in both PHYS 101 and PHYS 111-113 or PHYS 211-213. Corequisites: PHYS 101L-101L. Course meets SGR #6.</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 109 - First Year Seminar**</td>
<td>Offered in Fall. Course meets IGR #1</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 111-111L - Introduction to Physics I and Lab* (COM)</td>
<td>Prerequisites: Take one of the following: MATH 102, 115, 120, 121, 123, 125, 281, or consent. Corequisites: PHYS 111L-PHYS 111. Course meets SGR #6.</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 113-113L - Introduction to Physics II and Lab* (COM)</td>
<td>Prerequisites: Take PHYS 111. Corequisites: PHYS 113L-PHYS 113. Course meets SGR #6.</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 185-185L - Introduction to Astronomy I and Lab* (COM)</td>
<td>Corequisites: PHYS 185L-PHYS 185. Course meets SGR #6.</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 187-187L - Introduction to Astronomy II and Lab* (COM)</td>
<td>Corequisites: PHYS 187L-PHYS 187. Course meets SGR #6.</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 211-211L - University Physics I and Lab* (COM)</td>
<td>Prerequisites: Take one of the following: MATH 123 or MATH 125. Corequisites: PHYS 211L-PHYS 211. Course meets SGR #6.</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 213-213L - University Physics II and Lab * (COM)</td>
<td>Prerequisites: Take PHYS 211. Corequisites: PHYS 213L-PHYS 213. Course meets SGR #6.</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 291 - Independent Study (COM)</td>
<td>Department Approval</td>
<td>1-3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 292 - Topics (COM)</td>
<td>Department Approval</td>
<td>1-3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 316-316L - Measurement Theory and Experiment Design and Lab (AW)</td>
<td>Prerequisites: Take one of the following: PHYS 213 or PHYS 113. Corequisites: PHYS 316L-PHYS 316. Course meets (AW) requirement.</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 318 - Advanced Laboratory I</td>
<td>Prerequisites: Take one PHYS 316 and PHYS 331 or consent. Offered alternate years in Spring.</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 331 - Introduction to Modern Physics (COM)</td>
<td>Prerequisites: Take one of the following: PHYS 113 or PHYS 213 or consent. Offered in Fall.</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NE/PHYS 337 - Foundations of Health Physics</td>
<td>Prerequisites: Take MATH 225 and PHYS 213 in Fall.</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 341 - Thermodynamics (COM)</td>
<td>Prerequisites: Take one: PHYS 213 and MATH 225. Offered in Fall.</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 343 - Statistical Physics (COM)</td>
<td>Prerequisites: Take PHYS 331, PHYS 341, and MATH 225. Offered in Fall.</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 361 - Optics (COM)</td>
<td>Prerequisites: Take PHYS 213 or PHYS 113, and take MATH 225. Offered alternate years in Fall.</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 418 - Advanced Lab II</td>
<td>Prerequisites: Take one: PHYS 316 or consent. Offered alternate years in Fall.</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 421-521 - Electromagnetism (COM)</td>
<td>Prerequisites: Take one: PHYS 213 and MATH 321. Offered in Fall.</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 433-533 - Nuclear and Elementary Particle Physics (COM)</td>
<td>Prerequisites: Take one: PHYS 331 or PHYS 471. Offered alternate years in Spring.</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 439-539 - Solid State Physics (COM)</td>
<td>Prerequisites: Take PHYS 331 and MATH 321. alternate years in Spring.</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 451-551 - Classical Mechanics (COM)</td>
<td>Prerequisites: Take PHYS 321. Offered in Spring.</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 464 - Senior Design I</td>
<td>Prerequisites: Take one: PHYS 213 and MATH 321.</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 465-465L - Senior Design II and Lab</td>
<td>Prerequisites: Take one: PHYS 464 and MATH 321. Corequisites: PHYS 465L-465.</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 469-569 - Photonics</td>
<td></td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 471-571 - Quantum Mechanics (COM)</td>
<td>Prerequisites: Take one: PHYS 331 and MATH 321. Offered in Spring.</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 481-581 - Mathematical Physics (COM)</td>
<td>Prerequisites: Take one: MATH 321. Offered alternate years in Fall.</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 485 - Introduction to Astrophysics</td>
<td>Prerequisites: Take one: PHYS 213 and MATH 321.</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 490-590 - Seminar (COM)</td>
<td>Prerequisites: Take one: PHYS 213 and MATH 321. Offered in Spring.</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 491-591 - Independent Study (COM)</td>
<td>Department Approval</td>
<td>1-4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 492-592 - Topics (COM)</td>
<td>Department Approval</td>
<td>1-4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Prerequisites</td>
<td>Corequisites</td>
<td>Credits</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------------------------------------------</td>
<td>-------------------------------------------------------------------------------</td>
<td>--------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>PHYS 494</td>
<td>Internship (COM)</td>
<td>Department Approval</td>
<td></td>
<td>1-4</td>
</tr>
<tr>
<td>PHYS 496</td>
<td>Field Experience (COM)</td>
<td>Department Approval</td>
<td></td>
<td>1-4</td>
</tr>
<tr>
<td>PHYS 497</td>
<td>Cooperative Education (COM)</td>
<td>Department Approval</td>
<td></td>
<td>1-4</td>
</tr>
<tr>
<td>PHYS 498</td>
<td>Undergraduate Research/Scholarship (COM)</td>
<td>Department Approval</td>
<td></td>
<td>1-4</td>
</tr>
<tr>
<td>NE 435</td>
<td>Calculus I</td>
<td>Department Approval</td>
<td></td>
<td>1-4</td>
</tr>
<tr>
<td>NE 494</td>
<td>Internship (COM)</td>
<td>Department Approval</td>
<td></td>
<td>1-4</td>
</tr>
<tr>
<td>NE 498</td>
<td>Undergraduate Research/Scholarship (COM)</td>
<td>Department Approval</td>
<td></td>
<td>1-4</td>
</tr>
<tr>
<td>MATH 123</td>
<td>Calculus I</td>
<td>Prerequisites: Placement or MATH 115 with a grade of A or B.</td>
<td>Corequisites: PHYS 211L-PHYS 211. Course meets SGR #6.</td>
<td>4</td>
</tr>
<tr>
<td>MATH 125</td>
<td>Calculus II</td>
<td>Prerequisites: Take MATH 123.</td>
<td>Corequisites: PHYS 211L-PHYS 211. Course meets SGR #6.</td>
<td>4</td>
</tr>
<tr>
<td>MATH 225</td>
<td>Calculus III</td>
<td>Prerequisites: Take MATH125.</td>
<td>Corequisites: PHYS 211L-PHYS 211. Course meets SGR #6.</td>
<td>4</td>
</tr>
<tr>
<td>MATH 321</td>
<td>Differential Equations</td>
<td>Prerequisites: Take MATH125.</td>
<td>Corequisites: PHYS 211L-PHYS 211. Course meets SGR #6.</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 112/112L</td>
<td>General Chemistry I</td>
<td>Corequisites: CHEM112L-CHEM112 and MATH102. Course meets SGR #6.</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>CHEM 114/114L</td>
<td>General Chemistry II</td>
<td>Corequisites: CHEM114L-CHEM114. Course meets SGR #6.</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>CSC 150</td>
<td>Computer Science I</td>
<td>Corequisites: CCS150L-CSC150.</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>CSC 218</td>
<td>Introduction to C/C++/Unix for Engineers</td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>EE 220/220L</td>
<td>Circuits I and Lab</td>
<td>Prerequisites: &quot;C&quot; or better in MATH 125.</td>
<td>Corequisites: PHYS 211L-PHYS 211. Course meets SGR #6.</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 201</td>
<td>Composition II</td>
<td>Prerequisites: Take ENGL 101.</td>
<td>Course meets SGR #1.</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 277</td>
<td>Technical Writing for Engineering</td>
<td>Prerequisites: Take ENGL 101 and take one of the following: GE 109 or PHYS 109.</td>
<td>Course meets SGR #1.</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 200</td>
<td>Introduction to Logic</td>
<td>Course meets SGR #4 and Arts and Sciences College Humanities requirement.</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>PHIL 331</td>
<td>Philosophy of Science</td>
<td>Course meets SGR #4 and Arts and Sciences College Humanities requirement.</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ECON 202</td>
<td>Macroeconomics</td>
<td>Prerequisites: Take one of the following MATH courses: MATH 102 or 115 or 120 or 121 or 123 or 125 or 281.</td>
<td>Course meets SGR #3 and the Globalization and Arts and Sciences College Social Science requirements.</td>
<td>3</td>
</tr>
</tbody>
</table>