# University of Idaho

## B.S. Physics - Applied Physics Emphasis Four-Year Sample Curriculum

### 2021-2022 (odd year start)

<table>
<thead>
<tr>
<th>First Year - Fall Semester</th>
<th>First Year - Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Course</strong></td>
<td><strong>Course</strong></td>
</tr>
<tr>
<td>ENGL 101 Writing and Rhetoric I</td>
<td>CS 120 Computer Science I</td>
</tr>
<tr>
<td>MATH 143 College Algebra</td>
<td>ENGL 102 Writing and Rhetoric II</td>
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<tr>
<td>MATH 144 Analytic Trigonometry</td>
<td>MATH 170 Calculus I</td>
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<tr>
<td>PHYS 200 Physics Seminar</td>
<td>PHYS 211 Engineering Physics I</td>
</tr>
<tr>
<td>Oral Communication Elective</td>
<td>PHYS 211L Engineering Physics I Lab</td>
</tr>
<tr>
<td>Humanities Elective</td>
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<table>
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<th>Second Year - Fall Semester</th>
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<tbody>
<tr>
<td><strong>Course</strong></td>
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<tr>
<td>CHEM 111 General Chemistry I</td>
<td>CHEM 112 General Chemistry II</td>
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<tr>
<td>CHEM 111L General Chemistry I Lab</td>
<td>CHEM 112L General Chemistry II Lab</td>
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<tr>
<td>MATH 175 Calculus II</td>
<td>MATH 275 Calculus III</td>
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<tr>
<td>PHYS 212 Engineering Physics II</td>
<td>PHYS 213 Engineering Physics III</td>
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<td>PHYS 212L Engineering Physics II Lab</td>
<td>American Diversity Course</td>
</tr>
<tr>
<td>Social Science Elective</td>
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<table>
<thead>
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<th>Third Year - Fall Semester</th>
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<tbody>
<tr>
<td><strong>Course</strong></td>
<td><strong>Course</strong></td>
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<tr>
<td>MATH 310 Ordinary Differential Equations</td>
<td>MATH 330 Linear Algebra</td>
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<tr>
<td>PHYS 305 Modern Physics</td>
<td>PHYS 411 Advanced Physics Lab</td>
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<td>PHYS 341 Electromagnetic Fields</td>
<td>ENGINEERING/PHYS Elective</td>
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<tr>
<td>ENGINEERING/PHYS Elective</td>
<td>ENGINEERING/PHYS Elective</td>
</tr>
<tr>
<td>Social Science Elective</td>
<td>International Course</td>
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<tr>
<td>Total Credits</td>
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<table>
<thead>
<tr>
<th>Fourth Year - Fall Semester</th>
<th>Fourth Year - Spring Semester</th>
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</thead>
<tbody>
<tr>
<td><strong>Course</strong></td>
<td><strong>Course</strong></td>
</tr>
<tr>
<td>PHYS 371 Mathematical Physics</td>
<td>PHYS 321 Analytical Mechanics</td>
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<tr>
<td>PHYS 405 Elective</td>
<td>PHYS 351 Introductory Quantum Mechanics</td>
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<tr>
<td>PHYS 490 Research</td>
<td>PHYS 490 Research</td>
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<tr>
<td>ENGINEERING/PHYS Elective</td>
<td>PHYS 492 Senior Research</td>
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<tr>
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(Updated 6/2021)