Physics, PhD

Sample Plan of Study
Sample plans represent one way to complete a program of study. Actual course selection and sequence will vary and should be discussed with an academic advisor. For additional sample plans, see MyUI.

### Physics, PhD

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Any Semester</strong>&lt;br&gt;72 s.h. must be graduate level coursework; graduate transfer credits allowed upon approval. More information is included in the General Catalog and on department website. a, b&lt;br&gt;Students must maintain a Graduate College program GPA of 3.00 or higher. c</td>
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<tr>
<td><strong>Hours</strong></td>
<td>0</td>
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<tr>
<td><strong>First Year</strong>&lt;br&gt;Students must earn at least 24 s.h. in departmental courses numbered 5000 or above, and may not include credit earned in PHYS:7990, PHYS:7992, ASTR:7991, or seminars. b Students must complete specific requirements in the University of Iowa Graduate College after program admission. Refer to the Graduate College website and the Manual of Rules and Regulations for more information. c Graduate College program GPA is comprised of all courses that are approved degree requirements. If a student takes more than the minimum required number of semester hours to complete the degree, but all courses taken are eligible to count toward the degree, those courses will be included in the Graduate College program GPA. d Students who pass a written examination are exempt from this requirement. e Work with faculty advisor to determine appropriate coursework and sequence. f Dissertation defense.</td>
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<tr>
<td><strong>Fall</strong>&lt;br&gt;PHYS:4761 Mathematical Methods of Physics I d</td>
<td>3</td>
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<tr>
<td>PHYS:5710 Classical Mechanics</td>
<td>3</td>
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<tr>
<td>PHYS:5730 Statistical Mechanics I</td>
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<tr>
<td><strong>Hours</strong></td>
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<tr>
<td><strong>Spring</strong></td>
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<tr>
<td>PHYS:4762 Mathematical Methods of Physics II d</td>
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<tr>
<td>PHYS:5741 Quantum Mechanics I</td>
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<tr>
<td>PHYS:5811 Classical Electrodynamics I</td>
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<td><strong>Hours</strong></td>
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<tr>
<td><strong>Second Year</strong>&lt;br&gt;Elective course e</td>
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<tr>
<td><strong>Fall</strong>&lt;br&gt;PHYS:5742 Quantum Mechanics II</td>
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<tr>
<td>PHYS:5812 Classical Electrodynamics II</td>
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<td>Elective course e</td>
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<td><strong>Hours</strong></td>
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<tr>
<td><strong>Spring</strong>&lt;br&gt;Elective course e</td>
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<tr>
<td><strong>Hours</strong></td>
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<tr>
<td><strong>Third Year</strong>&lt;br&gt;Any Semester</td>
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<td><strong>Any Semester</strong>&lt;br&gt;Comprehensive Exam</td>
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<td><strong>Fall</strong>&lt;br&gt;PHYS:7990 Research: Physics</td>
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<tr>
<td><strong>Spring</strong>&lt;br&gt;PHYS:7990 Research: Physics</td>
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<tr>
<td><strong>Hours</strong></td>
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