## Physics (PhD)

### Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Background Coursework</strong></td>
<td></td>
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</tr>
<tr>
<td>PY 781</td>
<td>Quantum Mechanics I</td>
<td></td>
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<tr>
<td><strong>Core Courses</strong></td>
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<tr>
<td>PY 721</td>
<td>Statistical Physics I</td>
<td></td>
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<tr>
<td>PY 782</td>
<td>Quantum Mechanics II</td>
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<tr>
<td>PY 783</td>
<td>Advanced Classical Mechanics I</td>
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<tr>
<td>PY 785</td>
<td>Advanced Electricity and Magnetism I</td>
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<tr>
<td><strong>Qualifying Exams</strong></td>
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<td>PY 721</td>
<td>Statistical Physics I</td>
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<tr>
<td><strong>Elective Courses</strong></td>
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<td><strong>Additional Courses</strong></td>
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<td><strong>Research Courses</strong></td>
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<tr>
<td>PY 890</td>
<td>Doctoral Preliminary Examination</td>
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<td>PY 895</td>
<td>Doctoral Dissertation Research</td>
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<td><strong>Dissertation</strong></td>
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<tr>
<td>PY 899</td>
<td>Doctoral Dissertation Preparation</td>
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<td><strong>Total Hours</strong></td>
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</table>

1. Excludes PY 781 & PY 785, but may include: PY 721 Statistical Physics I, PY 782 Quantum Mechanics II, PY 783 Advanced Classical Mechanics I.

2. 42 credit hours of research are required for a PhD; however, only 24 are required for students with a MS.

### Faculty

Harald Ade
David E. Aspnes
Robert J. Beichner
Jerzy Bernholc
John Michael Blondin
John D. Brown
Laura I. Clarke
Karen E. Daniels
William L. Ditto
Daniel B. Dougherty
Carla Frohlich
Robert Golub
Kenan Gundogdu
Hans D. Hallen
Paul R. Huffman
Chueng Ryong Ji
James P. Kneller
Gail C. McLaughlin
Lubos Mitas
Robert Riehn
Christopher M. Roland
Maria C. Sagui
Thomas M. Schaefer
John E. Thomas
Mithat Unsal
Keith R. Weninger
Albert R. Young
Matthew Piron Green
Alexander Kemper
Divine Phillip Kumah
Shuang Fang Lim
Richard Leigh Longland
Hong Wang
Julio Monti Belmonte
Rongmon Bordoloi
Mary Williard Elting
Sebastian Konig
Sharonda Leblanc
Katherine Jean Mack
Physics (PhD)

Vladimir Skokov
Dali Sun
Jason Russell Bochinski
Kazimierz Borkowski
Abay Dinku
Daniel Jacob Doucette
Brand Irving Fortner
Keith Heyward
Parminder Kaur
John H. Kelley
Hayen Leendert
Kent Leung
Wenchang Lu
Vijaya Mehta
Zodiac T. Webster
Ruth W. Chabay
Kwong T. Chung
James W. Cook Jr.
Stephen R. Cotanch
William Robert Davis
Donald C. Ellison
Raymond Earl Fornes
Christopher Robert Gould
David G. Haase
Karen L. Johnston
Fred Lado Jr.
Jacqueline Krim
George W. Parker III
Richard R. Patty
Stephen Reynolds
Phillip J. Stiles

Assistant Professor
Xingcheng Lin

Teaching Professor
Aaron Titus

Teaching Assistant Professor
Kasey Wagoner

Associate Professor
Ian Roederer