Chemistry (PhD)

Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 610</td>
<td>Special Topics In Chemistry (Introduction to Graduate Studies)</td>
<td>63</td>
<td>Required Courses</td>
</tr>
<tr>
<td>CH 801</td>
<td>Seminar</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CH 895</td>
<td>Doctoral Dissertation Research</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CH 899</td>
<td>Doctoral Dissertation Preparation</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Additional Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 727</td>
<td>Biological Mass Spectrometry</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CH 749</td>
<td>Analytical Spectroscopy</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CH 721</td>
<td>Advanced Organic Chemistry I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CH 725</td>
<td>Physical Methods in Organic Chemistry</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CH 755</td>
<td>Organic Reaction Mechanisms</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CH 701</td>
<td>Advanced Inorganic Chemistry I: Structure and Bonding</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CH 795</td>
<td>Special Topics in Chemistry</td>
<td>1-6</td>
<td></td>
</tr>
<tr>
<td>CH 721 or CH 725</td>
<td>Advanced Organic Chemistry I or Physical Methods in Organic Chemistry</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or CH 737</td>
<td>Quantum Chemistry</td>
<td></td>
<td></td>
</tr>
<tr>
<td>or CH 795</td>
<td>Special Topics in Chemistry</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Hours: 81

Additional Courses

Select a minimum of six recommended courses below:

- Courses Analytical Division
  - CH 727: Biological Mass Spectrometry
  - CH 749: Analytical Spectroscopy
- Biorganic & Organic Division
  - CH 721: Advanced Organic Chemistry I
  - CH 725: Physical Methods in Organic Chemistry
  - CH 755: Organic Reaction Mechanisms
- Inorganic Division
  - CH 701: Advanced Inorganic Chemistry I: Structure and Bonding
  - CH 795: Special Topics in Chemistry

Physical Division

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 737</td>
<td>Quantum Chemistry</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CH 730</td>
<td>Advanced Physical Chemistry</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Additional courses will be approved in conjunction with the academic committee.

Faculty

Full Professors

- Dimitris S. Argyropoulos
- Edmond F. Bowden
- Felix Nicholas Castellano
- Stefan Franzen
- Edith Glazer
- Christopher B. Gorman
- Jonathan S. Lindsey
- James D. Martin
- David C. Muddiman
- Alexander A. Nevzorov
- Maria T. Oliver-Hoyo
- David A. Shultz
- Alexej I. Smirnov
- Leslie A. Sombers
- Brian Space
- Gavin John Williams

Associate Professors

- Nelson Rodrigo Vinueza Benitez
- Erin Marie Baker
- Nelson R. Vinueza Benitez
- Michael S. Bereman
- Ryan Chiechi
- Reza A. Ghiladi
- Elon A. Ison
- Elena Jakubikova
- Lucian A. Lucia
Assistant Professors
Oliver Baars
Yevgeny Brudno
Wei-Chen Chang
Denis Fourches
Milena Jovanovic
Vincent Lindsay
Jun Ohata
Caroline Proulx
Thomas Theis

Practice/Research/Teaching Professors
P. Brown
J. Feducia
M. Gallardo-Williams
A. Ison
M. Martin
G. S. McCarty
L. Del Negro
L. Petrovich
G. Rabah
K. Sandberg
L. Sremaniak
M. Voynov
R. Warren

Emeritus Faculty
Alton J. Banks
Robert D. Bereman
Charles Boss

Adjunct Faculty
V. Bornemann