### Chemistry (MS)

#### Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required Courses</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td>CH 610</td>
<td>Special Topics In Chemistry (Introduction to Graduate Studies)</td>
<td></td>
</tr>
<tr>
<td>CH 601</td>
<td>Seminar (two semesters)</td>
<td></td>
</tr>
<tr>
<td>CH 695</td>
<td>Master's Thesis Research</td>
<td></td>
</tr>
<tr>
<td>CH 699</td>
<td>Master's Thesis Preparation</td>
<td></td>
</tr>
<tr>
<td><strong>Additional Courses</strong></td>
<td></td>
<td><strong>18</strong></td>
</tr>
<tr>
<td>See &quot;Additional Courses&quot; listed below</td>
<td></td>
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</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>33</strong></td>
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</table>

#### Additional Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Select a minimum of six recommended courses below:</td>
<td><strong>18</strong></td>
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<tr>
<td><strong>Courses Analytical Division</strong></td>
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</tr>
<tr>
<td>CH 727</td>
<td>Biological Mass Spectrometry</td>
<td>3</td>
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<tr>
<td>CH 749</td>
<td>Analytical Spectroscopy</td>
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</tr>
<tr>
<td><strong>Biorganic &amp; Organic Division</strong></td>
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<tr>
<td>CH 721</td>
<td>Advanced Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CH 725</td>
<td>Physical Methods in Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CH 755</td>
<td>Organic Reaction Mechanisms</td>
<td>3</td>
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<tr>
<td><strong>Inorganic Division</strong></td>
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<tr>
<td>CH 701</td>
<td>Advanced Inorganic Chemistry I: Structure and Bonding</td>
<td>3</td>
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<tr>
<td>CH 795</td>
<td>Special Topics in Chemistry</td>
<td>1-6</td>
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<tr>
<td>CH 721</td>
<td>Advanced Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>or CH 725</td>
<td>Physical Methods in Organic Chemistry</td>
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<tr>
<td>or CH 737</td>
<td>Quantum Chemistry</td>
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</tr>
<tr>
<td>or CH 795</td>
<td>Special Topics in Chemistry</td>
<td></td>
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<tr>
<td><strong>Physical Division</strong></td>
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<tr>
<td>CH 737</td>
<td>Quantum Chemistry</td>
<td>3</td>
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<td>CH 730</td>
<td>Advanced Physical Chemistry</td>
<td>3</td>
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</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
- 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
- Gavin John Williams

#### Associate Professors

- Erin Marie Baker
- Nelson R. Vinueza Benitez
- Michael S. Bereman
- Reza A. Ghiladi
- Elon A. Ison
- Elena Jakubikova
- Lucian A. Lucia
- Paul A. Maggard
- Joshua Glenn Pierce
- Tatyana I. Smirnova

#### Assistant Professors

- Oliver Baars
- Yevgeny Brudno
- Wei-Chen Chang
- Denis Fourches
- 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

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**Emeritus Faculty**

Alton J. Banks
Robert D. Bereman
Charles Boss
Carl L. Bumgardner
Halbert H. Carmichael
Daniel L. Comins
Forrest W. Getzen
Forrest C. Hentz
Morteza Khaledi
S. Levine
Charles Moreland
Suzanne T. Purrington
William L. Switzer
William P. Tucker
Dennis W. Wertz
Myung H. Whangbo
Jerry L. Whitten

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**Adjunct Faculty**

V. Bornemann