Graduate Degree Courses and Certificates

Courses

Fall (odd years)
Chem 4712 Biochemistry
Chem 5212 Advanced Instrumental Analysis
Chem 5396 Physical Chemistry Directed Readings
Chem 5412 Graduate Inorganic Chemistry
Chem 5462 Organometallic Chemistry
Chem 5612 Organic Chemistry II – Reactions/Synthesis
Chem 5772 Advanced Physical Biochemistry
Chem 5794 Special Topics in Biochemistry (Bashkin)
Chem 6897 Colloquium

Spring (even years)
Chem 5294 Special Topics in Analytical Chemistry
Chem 5302 Foundations of Physical Chemistry
Chem 5602 Advanced Organic Chemistry I – Physical Organic
Chem 5694 Special Topics in Organic Chemistry (Bauer)
Chem 5722 Advanced Graduate Biochemistry
Chem 6897 Colloquium

Fall (even years)
Chem 4712 Biochemistry
Chem 5212 Advanced Instrumental Analysis
Chem 5294 Special Topics in Analytical Chemistry
Chem 5396 Physical Chemistry Directed Readings
Chem 5412 Graduate Inorganic Chemistry
Chem 5612 Organic Chemistry II – Reactions/Synthesis
Chem 5772 Advanced Physical Biochemistry
Chem 5774 Bioinformatics
Chem 6897 Colloquium

Spring (odd years)
Chem 5302 Foundations of Physical Chemistry
Chem 5602 Advanced Organic Chemistry I – Physical Organic
Chem 5652 Spectroscopic Identification of Organic Compounds
Chem 5722 Advanced Graduate Biochemistry
Chem 5794 Special Topics in Biochemistry (Nichols)
Chem 5794 Special Topics in Biochemistry (Stine)
Chem 6897 Colloquium
Graduate Certificates

Organic

Required
CHEM 5602 Advanced Organic Chemistry I – Physical Organic (3 h)
CHEM 5612 Advanced Organic Chemistry II – Reactions/Synthesis (3 h)
CHEM 5652 Spectroscopic Identification of Organic Compounds (3 h)

Electives (choose a total of 3 credit hours)
CHEM 5694 Special Topics in Organic Chemistry (3 h)
CHEM 6905 Graduate Research (3 h)

Biochemistry

Required
CHEM 5722 Advanced Graduate Biochemistry (3 h)
CHEM 5772 Advanced Physical Biochemistry (3 h)
CHEM 5774 Bioinformatics (3 h)

Electives (choose a total of 3 credit hours)
CHEM 5794 Special Topics in Biochemistry (3 h)
CHEM 4733 Biochemistry Lab (2 h)
CHEM 6787 Problem Seminar in Biochemistry (1-3 h)
CHEM 6905 Graduate Research (1-3 h)

Analytical

Required
CHEM 5212 Advanced Instrumental Analysis (3 h)
CHEM 5652 Spectroscopic Identification of Organic Compounds (3 h)
CHEM 5294 Special Topics in Analytical Chemistry (3 h)

Electives (choose a total of 3 credit hours)
CHEM 5772 Advanced Physical Biochemistry (3 h)
CHEM 6905 Graduate Research (1-3 h)
CHEM 4733 Biochemistry Lab (2 h)

Inorganic

Required
CHEM 5412 Advanced Graduate Inorganic Chemistry (3 h)
CHEM 5462 Organometallic Chemistry of the Transition Elements (3 h)
CHEM 5422 Coordination Chemistry (3 h)

Electives (choose a total of 3 credit hours)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CHEM 5494</td>
<td>Special Topics in Inorganic Chemistry</td>
<td>3 h</td>
</tr>
<tr>
<td>CHEM 6905</td>
<td>Graduate Research</td>
<td>3 h</td>
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