SYLLABUS
Advanced Inorganic Lab CHM4610L.0011/0012
Fall 2014

Professor: Dr. Andrew Frazer

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Office hours: Tue 10:30-12:00AM Wed 8:00-10:00AM, By appointment only!

Meeting Times: Mondays 7:30 - 1:20pm Chemistry, Room 0104/0202

Course Objectives: To obtain a working knowledge of modern synthetic techniques in inorganic chemistry and in the application of modern instrumentation methods in the characterization of inorganic compounds.


Required materials for the lab: Notebook, pen, Safety glasses and Laboratory coat required! No sandals or open-toed shoes are allowed. Because of a limitation on the amount of equipment we have, we will work in pairs and rotate through the different experiments. Lab partners will be rotated as often as possible.

GRADING POLICY - No work will be accepted during final exams

<table>
<thead>
<tr>
<th></th>
<th>Percentage</th>
<th>Grading Scale</th>
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</thead>
<tbody>
<tr>
<td>Lab reports for experiments</td>
<td>50</td>
<td>90-100% = A</td>
</tr>
<tr>
<td>Notebooks</td>
<td>10</td>
<td>80-89% = B</td>
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<tr>
<td>Final Exam</td>
<td>40</td>
<td>70-79% = C</td>
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<tr>
<td>Total Possible % Points</td>
<td>100</td>
<td>60-69% = D</td>
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### Tentative Schedule

<table>
<thead>
<tr>
<th>Exp No.</th>
<th>Title</th>
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<tbody>
<tr>
<td></td>
<td>Check In/Lab. Orientation</td>
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<tr>
<td>Set # 1</td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>Synthesis of Metal Acetylacetonates</td>
</tr>
<tr>
<td>17</td>
<td>Thione complexes of Cobalt(II) Nitrate Hexahydrate</td>
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<tr>
<td>20</td>
<td>Metal Complexes of Dimethyl Sulfoxide</td>
</tr>
<tr>
<td>47</td>
<td>The metal complexes of Saccharin</td>
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<tr>
<td>Set # 2</td>
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<tr>
<td>Hand-Out</td>
<td>Synthesis and Properties of Ruthenium(II) Tris-Bipyridine</td>
</tr>
<tr>
<td>28</td>
<td>Ion Exchange Separation of the Oxidation States of Vanadium</td>
</tr>
<tr>
<td>33</td>
<td>Reaction of Cr(III) with a multidentate ligand: A kinetics Experiment</td>
</tr>
<tr>
<td>49</td>
<td>Preparation of Glycine Complexes</td>
</tr>
<tr>
<td>Set # 3</td>
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<tr>
<td>40</td>
<td>Preparation and Use of Ferrocene Part A, B, C &amp; D</td>
</tr>
<tr>
<td>34</td>
<td>Organometallic compounds &amp; Catalysis: Synthesis &amp; use of Wilkinson's Catalyst - Part A, B &amp; F</td>
</tr>
<tr>
<td>37</td>
<td>Platinum(II) complexes - The Trans Effect, Part A &amp; B</td>
</tr>
<tr>
<td>41</td>
<td>Preparation of Organopalladium Complexes</td>
</tr>
<tr>
<td></td>
<td>Final Exams</td>
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</tbody>
</table>

**Note:** The instructor reserves the right to add to and/or change the schedule and other policies and information in the syllabus at any time.
Fall 2014

Late Registration on myUCF (ends at 11:59 p.m. on last day)  
Drop/Swap Deadline on myUCF (ends at 11:59 p.m.)  
  August 18 - 22  
  Thursday, August 21

Last Day for Full Refund  
Add Deadline on myUCF (ends at 11:59 p.m.)  
Payment Deadline  
  Thursday, August 21  
  Friday, August 22  
  Friday, August 29

Grade Forgiveness Deadline on myUCF (ends at 11:59 p.m.)  
  Monday, October 27

Withdrawal Deadline (ends at 11:59 p.m.)  
  Monday, October 27

Last day to Reinstall Drop for Nonpayment classes (ends at 4:00 p.m.)  
  Monday, October 27

Classes End; Last Day to Remove Incomplete  
  Monday, December 1

Final Examination Period  
  December 3 - 9

On-campus Housing closes (noon)  
Grades Due on myUCF (noon)  
Degree Conferral Date  
  Wednesday, December 10  
  Friday, December 12  
  Friday, December 12

Commencement  
Grades will be processed as available and will be final at 9 a.m. on myUCF  
  December 12 - 13  
  Tuesday, December 16

Fall 2014 Holidays  
Labor Day  
Veterans Day  
Thanksgiving  
  Monday, September 1  
  Tuesday, November 11  
  November 27 - 29

Fall 2014 Special Events  
Homecoming Week (classes still held)  
Homecoming Game  
  October 20-25  
  Saturday October 25