## CHEM 301. Inorganic Chemistry
### Syllabus
#### 2022 Fall Semester

<table>
<thead>
<tr>
<th>Week starting with</th>
<th>Topic</th>
<th>Assignments/Laboratory</th>
<th>Midterms</th>
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<tbody>
<tr>
<td>October 3</td>
<td>Atomic Structure &amp; Periodicity</td>
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<tr>
<td>October 10</td>
<td>Atomic Structure &amp; Periodicity</td>
<td>Laboratory Experiment</td>
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<td>October 17</td>
<td>Molecular Symmetry</td>
<td>Assignment 1:</td>
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<td>October 24</td>
<td>Molecular Symmetry</td>
<td>Laboratory Experiment</td>
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<tr>
<td>October 31</td>
<td>Structure &amp; Bonding</td>
<td>Assignment 2:</td>
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<td>November 7</td>
<td>Structure &amp; Bonding</td>
<td>Laboratory Experiment</td>
<td>Midterm 1</td>
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<td>November 14</td>
<td>Structure &amp; Bonding</td>
<td>Assignment 3:</td>
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<tr>
<td>November 21</td>
<td>Metallic &amp; Ionic Solids</td>
<td>Laboratory Experiment</td>
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<td>November 28</td>
<td>Metallic &amp; Ionic Solids</td>
<td>Assignment 4:</td>
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<td>December 5</td>
<td>Acids &amp; Bases</td>
<td>Laboratory Experiment</td>
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<td>December 12</td>
<td>Complex Ions &amp; Coordination Chemistry</td>
<td>Assignment 5:</td>
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<td>December 19</td>
<td>Complex Ions &amp; Coordination Chemistry</td>
<td>Laboratory Experiment</td>
<td>Midterm 2</td>
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<tr>
<td>December 26</td>
<td>Inorganic Materials &amp; Applications</td>
<td>Assignment 6:</td>
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<td>January 2</td>
<td>Inorganic Materials &amp; Applications</td>
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**Instructor:** Asst. Prof. Dr. Alp Yürüm  
**Assistants:** Bilal Sayyed Said Iskandarani, Burak Ölmez  
**Textbook:** Weller, Overton and Rourke’s Inorganic Chemistry (7th Ed.)  
**Alternative Textbooks:** Shriver and Atkins’ Inorganic Chemistry (5th or 6th Ed.)  
Housecroft and Sharpe’s Inorganic Chemistry  
**Midterms:** Midterm 1: November 7, 2022 - Midterm 2: December 19, 2022

**Weekly program**  
Class: Monday 11:40-13:30 FENS L062, Tuesday 13:40-14:30 FENS L062  
Laboratory: Wednesday 13:40-16:30 FENS G025

**Rules**  
1. Attendance to classes is expected from all of the students. Students who will attend all of the classes regularly will be awarded one grade above.  
2. All of the assignments must be done by each student. Students who will not complete all of the assignments, will get an incomplete grade (I) until all of the assignments will be completed.  
3. Percentages for the final grade:  
   - Midterm 1: 20%  
   - Midterm 2: 20%  
   - Final: 30%  
   - Assignments: 10%  
   - Labs: 20%  
4. Assignments will be returned one week after the date given above in the second class-day of the week. Late returns will get a 25% reduction in the grade.