## Chem N3AL Course Schedule

All assignments and posts are due by 11:00 PM, Pacific Daylight Time (PDT) of the day listed, unless otherwise noted.

<table>
<thead>
<tr>
<th>Dates</th>
<th>Readings</th>
<th>Online Prelab Quiz</th>
<th>In the Laboratory</th>
<th>Online Lecture</th>
<th>Online Experiment Overview</th>
<th>Online Lab Safety and Set-up Demos</th>
<th>Online Discussion</th>
</tr>
</thead>
<tbody>
<tr>
<td>6/22-6/23</td>
<td>Chapter 1</td>
<td>No</td>
<td>Safety Discussion. Check into laboratory lockers.</td>
<td>Introduction to the course and the instructor.</td>
<td>No</td>
<td>Yes (tour of the lab)</td>
<td>No</td>
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<tr>
<td>6/24-6/25</td>
<td>Chapter 4</td>
<td>No</td>
<td>Worksheet: Acids and Bases. Stoichiometry and Percent Yield.</td>
<td>Module 1 Lecture: Intermolecular forces</td>
<td>No</td>
<td>No</td>
<td>No</td>
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<tr>
<td>6/29-6/30</td>
<td>Chapter 2 and 3, Chapter 5.1 -5.5, Chapter 6: 6.1 Experiment #2</td>
<td>Yes</td>
<td>Experiment#2 Investigating solubility and acid-base reactions.</td>
<td>Module 1 Lecture: Intermolecular forces - Solubility</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
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<tr>
<td>7/1-7/2</td>
<td>NO LAB</td>
<td>NO</td>
<td>NO LAB</td>
<td>NO LAB</td>
<td>No</td>
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<tr>
<td>7/6-7/7</td>
<td>Chapter 6: 6.2-6.3.3 Experiment #3</td>
<td>Yes</td>
<td>Experiment #3 Mixed melting points.</td>
<td>Module 2 Lecture: Melting points</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
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<tr>
<td>7/8-7/9</td>
<td>Review Chapter 5: 5.1-5.2, Chapter 6: 6.4.1-6.4.1.b, 6.4.2 Experiment #4</td>
<td>Yes</td>
<td>Experiment #4 Whittling down the possibilities: Identifying an unknown using dipole moments</td>
<td>Module 3 Lecture: Boiling points and Dipole Moments</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
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<tr>
<td>7/13-7/14</td>
<td>Chapter 7: 7.1-7.25 Experiment #6</td>
<td>Yes</td>
<td>Experiment #6 Recrystallization and melting points: Recrystallization of an unknown solid and the decolorization of brown sugar.</td>
<td>Module 4 Lecture: Recrystallization</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>7/15-7/16</td>
<td>Chapter 7: 7.8-7.8.3.g Experiment #7</td>
<td>Yes</td>
<td>Experiment #7 Thin layer chromatography.</td>
<td>Module 5 Lecture: Chromatography</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
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<tr>
<td>7/20-7/21</td>
<td>Review Chapter 7: 7.8-7.8.3.g Experiment #8</td>
<td>Yes</td>
<td>Experiment #8 Identification of an adulterated herb or spice by TLC.</td>
<td>Module 5 Lecture: Chromatography Continued</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
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<tr>
<td>Date</td>
<td>Activity</td>
<td>Assignment</td>
<td>Module</td>
<td>Lecture: Nuclear Magnetic Resonance Spectroscopy #1</td>
<td>Module</td>
<td>Lecture: Nuclear Magnetic Resonance Spectroscopy #2</td>
<td>Module</td>
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<td>7/22-7/23</td>
<td>Chapter 8: 8.1.1-8.1.2</td>
<td>Yes</td>
<td>Module 6</td>
<td>Lecture: Nuclear Magnetic Resonance Spectroscopy #1</td>
<td>Yes</td>
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<td>Yes</td>
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<td><strong>Experiment #9</strong></td>
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<td>7/27-7/28</td>
<td><strong>Review Chapter 8: 8.1.1-8.1.2</strong> and <strong>Read Chapter 8: 8.1.3 and 8.1.4.c</strong></td>
<td>Yes</td>
<td>Module 7</td>
<td>Lecture: Nuclear Magnetic Resonance Spectroscopy #2</td>
<td>Yes</td>
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<td>Yes</td>
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<td><strong>Experiment #10</strong></td>
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| 7/29-7/30 | **Review Chapter 8:** 8.1.1-8.1.2, 8.1.3, 8.1.4.c  
**Read Chapter 8:** 8.1.4-8.1.6 | No          | Module 8| Lecture: Nuclear Magnetic Resonance Spectroscopy #3 | No      |                                                   | No      |                                                   |
| 8/3-8/4   | **Review Experiments 2,3,4,6,7,8,9**                                    | No          |         |                                                   |         |                                                   |         |                                                   |
| 8/5-8/6   | None                                                                    | No          |         |                                                   |         |                                                   |         |                                                   |
| 8/5 (8-9 PM) | NO LAB **(NOT ONLINE)**                                                 | No          |         |                                                   |         |                                                   |         |                                                   |

**Note:** Module numbers may vary depending on the course structure.