

### 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.

Dates	Readings	Online Prelab Quiz	In the Laboratory	Online Lecture	Online Experiment Overview	Online Lab Safety and Set-up Demos	Online Discussion
6/22-6/23	Chapter 1	No	Safety Discussion. Check into laboratory lockers.	Introduction to the course and the instructor.	No	Yes (tour of the lab)	No
6/24-6/25	Chapter 4	No	Worksheet: Acids and Bases. Stoichiometry and Percent Yield.	<b>Module 1</b> Lecture: Intermolecular forces	No	No	No
6/29-6/30	Chapter 2 and 3, Chapter 5.1 -5.5, Chapter 6: 6.1 <b>Experiment #2</b>	Yes	<b>Experiment#2</b> Investigating solubility and acid-base reactions.	<b>Module 1</b> Lecture: Intermolecular forces - Solubility	Yes	Yes	No
7/1-7/2	<b>NO LAB</b>	<b>NO</b>	<b>NO LAB</b>	<b>NO LAB</b>	No	No	No
7/6-7/7	Chapter 6: 6.2-6.3.3 <b>Experiment #3</b>	Yes	<b>Experiment #3</b> Mixed melting points.	<b>Module 2</b> Lecture: Melting points	Yes	Yes	No
7/8-7/9	Review Chapter 5: 5.1-5.2, Chapter 6: 6.4.1-6.4.1.b, 6.4.2 <b>Experiment #4</b>	Yes	<b>Experiment #4</b> Whittling down the possibilities: Identifying an unknown using dipole moments	<b>Module 3</b> Lecture: Boiling points and Dipole Moments	Yes	Yes	No
7/13-7/14	Chapter 7: 7.1-7.25 <b>Experiment #6</b>	Yes	<b>Experiment #6</b> Recrystallization and melting points: Recrystallization of an unknown solid and the decolorization of brown sugar.	<b>Module 4</b> Lecture: Recrystallization	Yes	Yes	Yes
7/15-7/16	Chapter 7:7.8-7.8.3.g <b>Experiment #7</b>	Yes	<b>Experiment #7</b> Thin layer chromatography.	<b>Module 5</b> Lecture: Chromatography	Yes	Yes	No
7/20-7/21	Review Chapter 7:7.8-7.8.3.g <b>Experiment #8</b>	Yes	<b>Experiment #8</b> Identification of an adulterated herb or spice by TLC.	<b>Module 5</b> Lecture: Chromatography Continued	Yes	Yes	No

7/22-7/23	Chapter 8: 8.1.1-8.1.2 <b>Experiment #9</b>	Yes	<b>Experiment #9</b> What do you take for pain?	<b>Module 6</b> Lecture: Nuclear Magnetic Resonance Spectroscopy #1	Yes	Yes	No
7/27-7/28	Review Chapter 8: 8.1.1-8.1.2 Read Chapter 8: 8.1.3 and 8.1.4.c <b>Experiment #10</b>	Yes	<b>Experiment #10</b> Nucleophilic substitution reactions of alkyl halides.	<b>Module 7</b> Lecture: Nuclear Magnetic Resonance Spectroscopy #2	Yes	Yes	No
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	In Lab NMR Worksheet	<b>Module 8</b> Lecture: Nuclear Magnetic Resonance Spectroscopy #3	No	No	Yes
8/3-8/4	Review <b>Experiments 2,3,4,6,7,8,9</b>	No	In-Class Lab Report (Experiments 2,3,4,6,7,8,9)	None	No	No	No
8/5-8/6	None Lab Check-out	No	Check out of lab	None	None	None	No
8/5 (8-9 PM)	NO LAB	<b>LAB EXAM (NOT ONLINE)</b>	NO LAB	NO LAB	NO LAB	NO LAB	NO LAB