

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.

Readings	Online Prelab Quiz	In the Laboratory	Online Lecture	Online Experiemnt Overview	Online Lab Safety and Set-up Demos	Online Discussion
Chapter 1, Chapter 4, Chapter 5: 5.1-5.3.3	No	Safety Discussion. Check into laboratory lockers. Worksheet: Acid/base and intermolecular forces.	Introduction to the course and the instructor. Module 1 Lecture: Intermolecular forces	No	Yes (tour of lab)	No
Chapter 2 and 3, Chapter 5: 5.3.4-5.5, Chapter 6: 6.1 Experiment #2	Yes	Experiment #2 Investigating solubility and acid-base reactions.	Module 1 Lecture: Intermolecular forces - Solubility	Yes	Yes	No
Chapter 6: 6.2-6.3.3 Experiment #3	Yes	Experiment #3 Mixed melting points.	Module 2 Lecture: Melting points	Yes	Yes	No
No lab	No	No lab	No lab	No lab	No lab	No
Review Chapter 5: 5.1-5.2, Chapter 6: 6.4.1-6.4.1.b, 6.4.2 Experiment #4	Yes	Experiment #4 Whittling down the possibilities: Identifying an unknown using dipole moments	Module 3 Lecture: Boiling points and Dipole Moments	Yes	Yes	No
Chapter 7: 7.1-7.25 Experiment #6	Yes	Experiment #6 Recrystallization and melting points: Recrystallization of an unknown solid and the decolorization of brown sugar.	Module 4 Lecture: Recrystallization	Yes	Yes	Yes
Review Experiments #2, #3, and #4	No	In-Class Lab Report (Experiments: 2, 3 and 4)	None	No	No	No
Chapter 7:7.8-7.8.3.g Experiment #7	Yes	Experiment #7 Thin layer chromatography.	Module 5 Lecture: Chromatography	Yes	Yes	No
Review Chapter 7:7.8-7.8.3.g Experiment #8	Yes	Experiment #8 Identification of an adulterated herb or spice by	Module 5 Lecture: Chromatography Continued	Yes	Yes	No

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Chapter 8: 8.1.1-8.1.2 Experiment #9	Yes	Experiment #9 What do you take for pain?	Module 6 Lecture: Nuclear Magnetic Resonance Spectroscopy #1	Yes	Yes	No
Review Chapter 8: 8.1.1-8.1.2 Read Chapter 8: 8.1.3 and 8.1.4.c Experiment #10	Yes	Experiment #10 Nucleophilic substitution reactions of alkyl halides.	Module 7 Lecture: Nuclear Magnetic Resonance Spectroscopy #2	Yes	Yes	No
Review Experiments #6, #7, #8, and #9	No	In-Class Lab Report (Experiments 6,7,8, and 9)	None	No	No	No
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 #1	Module 8 Lecture: Nuclear Magnetic Resonance Spectroscopy #3	No	No	Yes
Review Chapter 8	No	In Lab NMR worksheet #2	None	No	No	No
None Lab Check-out	No	Check out of lab	None	None	None	No
No lab	Tues. 8/12 8-9 p.m., location TBA (not online)	No lab	No lab	No lab	No lab	No lab