

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. | Module 1 Lecture: Intermolecular forces | No | No | No |
| 6/29-6/30 | Chapter 2 and 3, Chapter 5.1 -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 |
| 7/1-7/2 | NO LAB | NO | NO LAB | NO LAB | No | No | No |
| 7/6-7/7 | Chapter 6: 6.2-6.3.3 Experiment #3 | Yes | Experiment #3 Mixed melting points. | Module 2 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 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 |
| 7/13-7/14 | 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 |
| 7/15-7/16 | Chapter 7:7.8-7.8.3.g Experiment #7 | Yes | Experiment #7 Thin layer chromatography. | Module 5 Lecture: Chromatography | Yes | Yes | No |
| 7/20-7/21 | Review Chapter 7:7.8-7.8.3.g Experiment #8 | Yes | Experiment #8 Identification of an adulterated herb or spice by TLC. | Module 5 Lecture: Chromatography Continued | Yes | Yes | No |

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| 7/22-7/23 | 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 |
| 7/27-7/28 | <i>Review</i> Chapter 8: 8.1.1-8.1.2 <i>Read</i> 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 |
| 7/29-7/30 | <i>Review</i> Chapter 8: 8.1.1-8.1.2, 8.1.3, 8.1.4.c <i>Read</i> Chapter 8: 8.1.4-8.1.6 | No | In Lab NMR Worksheet | Module 8 Lecture: Nuclear Magnetic Resonance Spectroscopy #3 | No | No | Yes |
| 8/3-8/4 | <i>Review</i> Experiments 2,3,4,6,7,8,9 | 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 | LAB EXAM (NOT ONLINE) | NO LAB | NO LAB | NO LAB | NO LAB | NO LAB |