

|      | CLASS                                                                              | CLASS                                                                                                 | DISC. SEC.                                               | CLASS                                                                                                 | ALEKS*                                                                    | LAB                                               |
|------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------|
| WEEK | MON                                                                                | WED                                                                                                   | THURS                                                    | FRI                                                                                                   | SUN                                                                       | M, T                                              |
| 1    | <b>Mar 27</b><br>Introduction to<br>CHEM 142!                                      | <b>Mar 29</b><br>RQ†: 12.0-2<br>L1.1: The Nature of<br>Light & Matter                                 | <b>Mar 30</b><br>DS01: Meet<br>your TA!<br>Practice L1.1 | <b>Mar 31</b><br>RQ: 12.3-4<br>L1.2: H-atom Emission,<br>Bohr Model                                   | <b>Apr 2</b><br>Obj 1: Review of<br>atomic theory, units,<br>math; L1.1-2 | NO LAB                                            |
| 2    | <b>Apr 3</b><br>RQ: 12.5,7-8<br>L1.3: Quantum<br>Mechanics                         | <b>Apr 5</b><br>RQ: 12.9<br>L1.4: H-atom Orbitals                                                     | <b>Apr 6</b><br>DS02:<br>Practice L1.2-4                 | <b>Apr 7</b><br>RQ: 12.10-11, 13<br>L1.5: Electron Spin,<br>Aufbau Principle<br>Pre-Ex1 Ref opens 12a | <b>Apr 9</b><br>Obj 2: L1.3-5                                             | Lab Orientation                                   |
| 3    | <b>Apr 10</b><br>RQ: 12.15-16<br>L1.6: Periodic Trends                             | <b>Apr 12</b><br>RQ: 13.1-3, 6<br>L2.1: Chemical Bonds<br>Pre-Ex1 Ref due 11p                         | <b>Apr 13</b><br>DS03:<br>Practice L1.5-6;<br>L2.1       | <b>Apr 14 EXAM 1</b><br>Coverage:<br>Unit 1                                                           | <b>Apr 16</b><br>Obj 3: L1.6; L2.1                                        | Lab 1<br>Atomic Emission<br>(in-lab report)       |
| 4    | <b>Apr 17</b><br>RQ: 13.9-11<br>L2.2: Lewis structures,<br>Resonance               | <b>Apr 19</b><br>RQ: 13.12<br>L2.3: Formal Charge,<br>Exceptions to Octet<br>Post-Ex1 Ref opens 6p    | <b>Apr 20</b><br>DS04:<br>Practice L2.2-3                | <b>Apr 21</b><br>RQ: 13.13<br>L2.4: VSEPR Theory                                                      | <b>Apr 23</b><br>Obj 4: L2.2-4<br>Post-Ex1 Ref due 11p                    | Lab 2<br>Chemical Models<br>(in-lab report)       |
| 5    | <b>Apr 24</b><br>RQ: 3.1-3<br>L3.1: Atomic mass; The<br>mole; Molar mass           | <b>Apr 26</b><br>RQ: 3.5-7<br>L3.2: Empirical form-<br>ulas; Chem equations                           | <b>Apr 27</b><br>DS05:<br>Practice L2.4;<br>L3.1-2       | <b>Apr 28</b><br>RQ: 3.8-10<br>L3.3: Chemical eqns,<br>Stoichiometry<br>Pre-Ex2 Ref opens 12a         | <b>Apr 30</b><br>Obj 5: L3.1-3                                            | Lab 3<br>Stoichiometry<br>(in-lab report)         |
| 6    | <b>May 1</b><br>RQ: 4.1-3<br>L4.1: Solutions;<br>Electrolytes; Dilutions           | <b>May 3</b><br>RQ: 4.4-8<br>L4.2: Precipitation<br>reactions<br>Pre-Ex2 Ref due 11p                  | <b>May 4</b><br>DS06:<br>Practice L3.3;<br>L4.1-2        | <b>May 5 EXAM 2</b><br>Coverage:<br>Units 1-3, L4.1                                                   | <b>May 7</b><br>Obj 6: L4.1-2                                             | NO LAB                                            |
| 7    | <b>May 8</b><br>RQ: 4.9-10<br>L4.3: Acid-base rxns;<br>Oxidation-reduction<br>rxns | <b>May 10</b><br>RQ: 4.11-12<br>L4.4: Balancing redox<br>rxns; Redox stoich.<br>Post-Ex2 Ref opens 6p | <b>May 11</b><br>DS07:<br>Practice L4.3-4                | <b>May 12</b><br>RQ: 15.1-3<br>L5.1: Reaction Rates,<br>Rate Laws                                     | <b>May 14</b><br>Obj 7: L4.3-4; L5.1<br>Post-Ex2 Ref due 11p              | Lab 4<br>Calibration Curves<br>(take-home report) |
| 8    | <b>May 15</b><br>RQ: 15.4-5<br>L5.2: Integrated Rate<br>Laws                       | <b>May 17</b><br>RQ: 5.1-3<br>L5.3: Empirical gas laws;<br>Ideal gas law                              | <b>May 18</b><br>DS08:<br>Practice L5.1-3                | <b>May 19</b><br>RQ: 5.4-5<br>L5.4: Gas stoich.; Partial<br>pressures<br>Pre-Ex3 Ref opens 12a        | <b>May 21</b><br>Obj 8: L5.2-4                                            | Lab 5<br>Kinetics I<br>(take-home report)         |
| 9    | <b>May 22</b><br>RQ: 5.6,10<br>L5.5: Kinetic Molec<br>Theory; Real gases           | <b>May 24</b><br>RQ: 15.6<br>L5.6: Reaction<br>Mechanisms<br>Pre-Ex3 Ref due 11p                      | <b>May 25</b><br>DS09:<br>Practice L5.4-6                | <b>May 26 EXAM 3</b><br>Coverage:<br>Units 1-4, L5.1-5.5                                              | <b>May 28</b><br>Obj 9: L5.5-6                                            | Lab 6<br>Gaw Laws<br>(in-lab report)              |
| 10   | <b>May 29</b><br><b>Memorial Day</b><br>NO CLASS                                   | <b>May 31</b><br>RQ: 15.8<br>L5.7: A Model for<br>Chemical Kinetics<br>Post-Ex3 Ref opens 6p          | <b>Jun 1</b><br>DS10:<br>Practice L5.7                   | <b>Jun 2</b><br>Course Review                                                                         | <b>Jun 4</b><br>Obj 10: L5.7<br>Pie Mastery<br>Post-Ex3 Ref due 11p       | NO LAB                                            |
| 11   | <b>Jun 5</b>                                                                       | <b>Jun 7</b><br><b>FINAL EXAM</b><br>Coverage: Units -1-5<br>8:30-10:20a in BAG 131                   |                                                          |                                                                                                       |                                                                           | NO LAB                                            |

**LEGEND:** RQ = reading quiz over indicated textbook sections; L = Lesson; Obj = ALEKS Objective; DS = Discussion Section; Ref = Reflection Survey

\* All ALEKS Objectives are due at 11 pm on Sundays. The Pie Mastery assignment is due at 11 pm on Sun, Jun 4.

† All Reading Quizzes (RQs) are due at 9:30 am on the day indicated. Each RQ opens at 12:00 am on the Saturday prior to its due date.