COURSE SCHEDULE

Assigned sections from Atkins textbook should be read prior to the indicated class day.

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| **Note**: R = Reading Assignment | DS = Discussion Section | L = Lesson | WS = Worksheet | Obj = Objective | MT = Major Technique |

| **Week** | | **CLASS** | **CLASS** | **DS** | **CLASS** | **LAB** | **ALEKS** |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | | *Mon* | *Wed* | *Thurs* | *Fri* |  | *Due Sun 11p* |
| 1 | | **Mar 28** | **30** | **31 DS 1** | **Apr 1** | *NO LAB* | **Obj 1** |
| Course Intro | L1.1: Review of VSEPR & Molecular Polarity  (**R: 4.1-3**) | DS Intro  WS 1:  L1.1 | L1.2: Atomic Orbital Hybridization  (**R: 4.4-5,7**) | L1.1  (Atkins: 4.1-3) |
| 2 | | **Apr 4** | **6** | **7 DS 2** | **8** | Lab Orientation  **Rpt due**: 11:55 pm one *day* after lab | **Obj 2**: |
| Continue L1.2 | L1.3: Molecular Orbital Model of Bonding  (**R: 4.8-9, 10 to p. 133)** | WS 2:  L1.2-3 | **QUIZ 1**  Review of ~~152~~ 142 (Lewis, VSEPR); L1.1-2 | L1.2-3  (Atkins: 4.4-5,7-9) |
| 3 | | **Apr 11** | **13** | **14 DS 3** | **15** | **Lab 1**: Reactivity Trends  **Rpt due**: 11:55 pm one *day* after lab | **Obj 3** |
| L1.4: Magnetism  (**R: Box 4.2, p. 130**); Di-atomics (**R: 4.10**) | Continue L1.3-4 | WS 3:  L1.4 | L1.5: UV-Vis Spect-roscopy (**R: 4.12; MT 2 (pp. 146-7)**) | L1.4 (Atkins: 4.10)  *(There is no L1.5 content in ALEKS)* |
| 4 | | **Apr 18** | **20** | **21 DS 4** | **22** | **Lab 2**: Electrochem  **Rpt due**: 11:55 pm one *day* after lab | **Obj 4** |
| L2.1: Intermolecular Forces  (**R: 6.1-8**) | L2.2: H and S of Phase s (**R: 8.11-12; 9.4 (PDFs on Canvas)**) | WS 4:  L1.5; 2.1-2 | **QUIZ 2**  L1.3-5; 2.1 | L2.1-2  (Atkins: 6.1-8;  8.11-12; 9.4) |
| 5 | | **Apr 25** | **27** | **28 DS 5** | **29** | **Lab 3**: IMFs  **Rpt due**: 11:55 pm one *day* after lab | **Obj 5** |
| L2.3: Vapor Pressure of Liquids; Boiling  (**R: 10.1-4**) | L2.4: Phase Diagrams (**R: 10.5-7**) | WS 5:  L2.3-4 | L2.5: Structure of Solids (**R: 6.9-13; MT 3 (pp. 223-5)**) | L2.3-5  (Atkins: 10.1-7;  6.9-13) |
| 6 | | **May 2** | **4** | **5 DS 6** | **6** | *NO LAB* | **Obj 6**: |
| L3.1: Solubility; Thermo of Solutions  (**R: 10.8-9, 12-13**) | L3.2: P and T Effects on Solubility; Molality  (**R: 10.10-11, 14**) | WS 6:  L3.1-2 | **QUIZ 3**  L2.2-5; 3.1 | L3.1-2  (Atkins: 10.8-14) |
| 7 | | **May 9** | **11** | **12 DS 7** | **13** | **Lab 4**: Frac. Xtal  **Rpt due**: 11:55 pm one *week* after lab | **Obj 7:** |
| L3.3: Colligative Properties  (**R: 10.15-16**) | L3.4: Colligative Props; Pvap of Binary Solns  (**R: 10.17-18**) | WS 7:  L3.3-4 | L4.1: The d-block metals; Coordination complexes (**R: 17.1-6**) | L3.3-4; 4.1  (Atkins: 10.15-18; 17.1-6) |
| 8 | | **May 16** | **18** | **19 DS 8** | **20** | **Lab 5**: Spec. Series  **Rpt due**: 11:55 pm one *day* after lab | **Obj 8:** |
| L4.2: Crystal Field Thy; Spectrochem Series; Magnetism (**R: 17.8-11**) | L4.3: Isomers  (**R: 17.7**) | WS 8:  L4.1-3 | **QUIZ 4**  L3.2-4; 4.1-2 | L4.2-3  (Atkins: 17.7-11) |
| 9 | | **May 23** | **25** | **26 DS 9** | **27** | **Lab 6**: Aspirin Syn.  **Rpt due**: end of lab | **Obj 9** |
| L5.1: Aliphatic Hydro-carbons  (**R: 19.1-3, 5**) | Continue L5.1 | WS 9:  L5.1 | L5.2: Chirality; Fxnal Groups (**R: 19.2 from p. 805; 20.1-8**) | L5.1  (Atkins: 19.1-2,5) |
| 10 | | **May 30** | **Jun 1** | **2 DS 10** | **3** | *NO LAB* | **Obj 10** |
| *NO CLASS*  *Memorial Day* | L5.3: Vibrational Spectroscopy (**R: MT 1 (PDF on Canvas)**) | L5.2-3 | Course Review | L5.2 (Atkins: 20.1-8)  *(There is no L5.3 content in ALEKS)* |
| 12 | FINAL EXAM: Tues, Jun 7 | 2:30 – 4:20 pm  Covers: All content in Units 1-5 | | | | | | **Pie Progress** | |
| *Due at* ***11:59 pm on Sun 06-05.*** | |