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* | *Tues/Wed* | *Due Sun 11p* |
| 1 | | **Sept 27** | **29** | **30** | **Oct 1** | *NO LAB* | **Obj 1** |
| *NO CLASS* | Course Intro | DS Intro | L1.1: Review of VSEPR & Molecular Polarity  (**R: 4.1-3**) | L1.1 |
| 2 | | **Oct 4** | **6** | **7** | **8** | Lab Orientation  **Rpt due**: 11:55 pm one *day* after lab | **Obj 2**: |
| L1.2: Atomic Orbital Hybridization (**~~R: 4.4-7~~ R: 4.4-5,7**) | Continue L1.2 | WS 1:  L1.1-2 | L1.3: Molecular Orbital Model of Bonding  (**~~R: 4.8-10~~ R: 4.8-9**) | L1.2-3 |
| 3 | | **Oct 11** | **13** | **14** | **15** | **Lab 1**: Reactivity Trends  **Rpt due**: 11:55 pm one *day* after lab | ***Open Pie*** |
| L1.4: Magnetism  (**R: Box 4.2, p. 130**); Di-atomics (**R: ~~4.11~~ 4.10**) | Continue L1.3-4 | WS 2:  L1.3-4 | **QUIZ 1**  **L1.1-4** |  |
| 4 | | **Oct 18** | **20** | **21** | **22** | **Lab 2**: Electrochem  **Rpt due**: 11:55 pm one *day* after lab | **Obj 3**: |
| L1.5: UV-Vis Spect-roscopy (**R: 4.12; MT 2 (pp. 146-7)**) | L2.1: Intermolecular Forces  (**R: 6.1-8**) | WS 3:  L1.5, 2.1 | L2.2: H and S of Phase s (**R: 8.11-12; 9.4 (PDFs on Canvas)**) | L2.1-2  *(No L1.5 content in ALEKS)* |
| 5 | | **Oct 25** | **27** | **28** | **29** | *NO LAB* | **Obj 4**: |
| L2.3: Vapor Pressure of Liquids; Boiling  (**R: 10.1-4**) | L2.4: Phase Diagrams (**R: 10.5-7**) | WS 4:  L2.2-2.4 | **QUIZ 2**  **L1.5, 2.1-3** | L2.3-4 |
| 6 | | **Nov 1** | **3** | **4** | **5** | **Lab 3**: IMFs  **Rpt due**: 11:55 pm one *week* after lab | **Obj 5**: |
| L2.5: Structure of Solids (**R: 6.9-13; MT 3 (pp. 223-5)**) | L3.1: Solubility; Thermo of Solutions  (**R: 10.8-9, 12-13**) | WS 5:  L2.5, 3.1 | L3.2: P and T Effects on Solubility; Molality  (**R: 10.10-11, 14**) | L2.5; 3.1-2 |
| 7 | | **Nov 8** | **10** | **11** *Vet’n’s Day* | **12** | *NO LAB* | **Obj 6:** |
| L3.3: Colligative Properties  (**R: 10.15-16**) | L3.4: Colligative Props; Pvap of Binary Solns  (**R: 10.17-18**) | *NO CLASS*  WS 6 (Canvas): L3.2-4 | **QUIZ 3**  **L2.4-5, 3.1-3** | L3.3-4 |
| 8 | | **Nov 15** | **17** | **18** | **19** | **Lab 4**: Frac. Xtal  **Rpt due**: 11:55 pm one *week* after lab | **Obj 7:** |
| L4.1: The d-block metals; Coordination complexes (**R: 17.1-6**) | L4.2: Crystal Field Thy; Spectrochem Series; Magnetism (**R: 17.8-12**) | WS 7:  L3.3-4, 4.1 | L4.3: Isomers  (**R: 17.7**) | L4.1-3 |
| 9 | | **Nov 22** | **24** | **25** | **26** | *NO LAB* |  |
| **QUIZ 4**  **L3.4; 4.1-2** | TBA | *Thanksgiving*  *NO CLASS* | *Thanksgiving*  *NO CLASS* | *No Objective* |
| 10 | | **Nov 29** | **Dec 1** | **2** | **3** | **Lab 5**: Spec. Series  **Rpt due**: 11:55 pm one *day* after lab | **Obj 8:** |
| L5.1: Aliphatic Hydro-carbons  (**R: 19.1-3, 5**) | Continue L5.1 | WS 8:  L4.2-3, 5.1 | L5.2: Chirality; Fxnal Groups (**R: 19.2 from p. 805; 20.1-8**) | L5.1 |
| 11 | | **Dec 6** | **8** | **9** | **10** | **Lab 6**: Aspirin Syn.  **Rpt due**: 11:55 pm one *day* after lab | **Obj 9:** |
| **QUIZ 5**  **L4.3, 5.1** | L5.3: Vibrational Spectroscopy (**R: MT 1 (PDF on Canvas)**) | WS 9:  L5.2-3 | Course Review | L5.2  *(No L5.3 content in ALEKS)* |
| 12 | Quiz 6 + 7: Wed, Dec 15 | 8:30 – 10:20a | | | | | | **Pie Progress** | |
| *Due at* ***11:59 pm on Sun 12-12.*** | |