|  | CLASS | DISC. SECTION | CLASS | CLASS | ALEKS[[1]](#footnote-1) | lAB |
| --- | --- | --- | --- | --- | --- | --- |
| WEEK | MON | TUES | WED | FRI | SUN | T, W, Th, F |
| 1 | **Jan 2****NO CLASS** | **Jan 3**No Discussion Section | **Jan 4**Welcome! Syllabus, course structure**TB**: none | **Jan 6****R&P**: L1.1 (Equilibrium; equilibrium constant) **TB**: 6.1-4 | **Jan 8****Obj 1:** L1.1; Chem Kinetics Review | **NO LAB** |
| 2 | **Jan 9****R&P**: L1.2 (Kp vs. Kc; Heterogen. Equilibria)**TB**: 6.5-6 | **Jan 10**Discussion Section 1**WS01**: CHEM 142 Review, L1.1-2 | **Jan 11****R&P**: L1.3 (Solving equilibrium problems)**TB**: 6.7 | **Jan 13****R&P**: L1.4 (Le Chât-elier’s Principle)**TB**: 6.8 Pre-Ex1 Ref opens 12a | **Jan 15****Obj 2:** L1.2-4; Gas Laws Review | **Lab Orientation** |
| 3 | **Jan 16 MLK Day****NO CLASS** | **Jan 17**Discussion Section 2**WS02**: L1.3-4 | **Jan 18** **R&P**: L2.1 (Bronsted-Lowry; acid strength)**TB**: 7.1-5Pre-Ex1 Ref due 11p | **Jan 20 EXAM 1****Coverage**: CHEM 142 Review (Kinetics, Gas Laws), Unit 1 | **Jan 22****Obj 3:** L2.1 | **NO LAB** |
| 4 | **Jan 23****R&P**: L2.2 (Calculating pH of acids and bases)**TB**: 7.6 | **Jan 24**Discussion Section 3**WS03**: L2.1-2Post-Ex1 Ref opens 6p | **Jan 25****R&P**: L2.3 (Acid-base properties of salts)**TB**: 7.8 | **Jan 27****R&P**: L2.4 (Common ion solutions; buffers)**TB**: 8.1-2, 8.4 | **Jan 29****Obj 4:** L2.2-4Post-Ex1 Ref due 11p | **Lab 1**Kinetics II(take-home report) |
| 5 | **Jan 30****R&P**: L2.3-4, Continued**TB**: none | **Jan 31**Discussion Section 4**WS04**: L2.3-4  | **Feb 1****R&P**: L2.5 (Titrations and pH curves)**TB**: 8.5 | **Feb 3****R&P**: L2.6 (Solubility equilibria)**TB**: 8.8-9 Pre-Ex2 Ref opens 12a | **Feb 5****Obj 5:** MoreL2.2-4; L2.5-6 | **Lab 2**Weak Acid Titration(in-lab report) |
| 6 | **Feb 6****R&P**: L3.1 (Energy)**TB**: 9.1 | **Feb 7**Discussion Section 5**WS05**: L2.5-6; L3.1 | **Feb 8** **R&P**: L3.2 (Enthalpy; Thermo. of ideal gases)**TB**: 9.2-3Pre-Ex2 Ref due 11p | **Feb 10 EXAM 2****Coverage**: Units 1-2  | **Feb 12****Obj 6:** L3.1-2; Gas Laws Review | **Lab 3**Buffers(in-lab report) |
| 7 | **Feb 13****R&P**: L3.1-2, Continued**TB**: none | **Feb 14**Discussion Section 6**WS06**: L3.1-2Post-Ex2 Ref opens 6p | **Feb 15****R&P**: L3.3 (Hess’s Law; Enthalpy of Formation)**TB**: 9.4-6 | **Feb 17** **R&P**: L3.4[[2]](#footnote-2) (Statistical entropy) **TB**: 10.1, 10.3 | **Feb 19****Obj 7:** MoreL3.1-2; L3.3-4Post-Ex2 Ref due 11p | **Lab 4**Thermo I(take-home report) |
| 8 | **Feb 20 Pres’s Day****NO CLASS** | **Feb 21**Discussion Section 7**WS07**: L3.3-4 | **Feb 22****R&P**: L3.6† (S in system and surroundings)**TB**: 10.4-5, 10.8 | **Feb 24****R&P**: L3.7 (Temp & spontaneity; DG)**TB**: 10.6-7, 10.9 Pre-Ex3 Ref opens 12a | **Feb 26****Obj 8:** L3.6-7 | **NO LAB** |
| 9 | **Feb 27****R&P**: L3.8 (∆G°, ∆G, Keq)**TB**: 10.10-11 | **Feb 28**Discussion Section 8**WS08**: L3.6-8 | **Mar 1****R&P**: L4.1 (Redox review; Galvanic cells)**TB**: 4.10-11; 11.1 Pre-Ex3 Ref due 11p | **Mar 3 EXAM 3****Coverage**: Units 1-3 | **Mar 5****Obj 9:** L3.8; L4.1 | **Lab 5**Thermo II(take-home report) |
| 10 | **Mar 6****R&P**: L4.2 (Standard reduction potentials)**TB**:11.2 | **Mar 7**Discussion Section 9**WS09**: L4.1-3[[3]](#footnote-3) Post-Ex3 Ref opens 6p | **Mar 8** **R&P**: L4.3 (Cell pot-ential, ∆G, w, & conc.)**TB**: 10.12; 11.3-4 | **Mar 10****R&P**: Course Review**TB**: none | **Mar 12****Obj 10:** L4.2-3**Pie Mastery**Post-Ex3 Ref due 11p | **Lab 6**Redox and % Composition(in-lab report) |
| 11 | **Mar 13**  | **Mar 14****FINAL EXAM****Coverage**: Units 1-48:30-10:20 p in BAG 131 | **Mar 15**  | **Mar 17** | **Mar 18** | **NO LAB** |

**LEGEND:** R&P = Review and Problem-solving session; TB = textbook reading; L = Lesson; Obj = ALEKS Objective; WS = Worksheet; Ref = Reflection

1. All ALEKS Objectives are due at 11 pm on Sundays. The Pie Mastery assignment is due at 11 pm on Sun, Mar 12. [↑](#footnote-ref-1)
2. Lesson 3.5 has been cancelled for this course in Winter 2023 [↑](#footnote-ref-2)
3. This worksheet contains content that will be discussed in the last R&P session on Mar 8. [↑](#footnote-ref-3)