Chem 220 Environmental, Analytical, and Geochemistry

Mod 2 Spring 2021

Week 1	
Tuesday, April 6 Le Châtelier *Lab pages 9-10* *Rain pages 36-37*	Wednesday, April 7 Ions and Equilibria Calculations and Review, *Harris 1.2-1.3*
Thursday, April 8 **Pipet** *Lab pages 4-8, 11-12, 47-49, 52, 54-57*, and *Harris 2.1-2.6, 2.9, 3.1*	Friday, April 9 Acid Rain, *Rain 1A* Acid Rain Lab *Rain 1B, 1C*

Week 2	Monday, April 12 (**Problems 2 due** 8:15) Strong and Weak, *Rain 2B, Harris 8.1, Tab8.1* K_a and K_s, *Rain 3A and Harris 1.5*
Tuesday, April 13 (**Pipet Lab due** 8:15) **Lead** *Lab pages 13-15* and *Harris 6.4*	Wednesday, April 14 *pH* and K_w, *Rain 2C and Harris 8.2, 8.4* Error Analysis, *Harris 3.3, 4.1*
Thursday, April 15 (**Lead Lab due** 8:15) **Copper** *Lab Rain 4B and Harris 6.2*	Friday, April 16 (**Problems 3 due** 8:15) Confidence Limits, *Harris 4* Equilibrium Calculations, *Rain 3B, Harris 8.6*

Week 3	Monday, April 19 **Test 1 due** 9:45 Systematic Method, *Rain 3C, Harris 12.3-4*
Tuesday, April 20 (**Copper Lab due** 8:15) **Chloride** *Lab pages 16-18 and Harris 6.6*	Wednesday, April 21 Log Concentration Diagrams, *Rain 3D* Ionic Strength, *Rain page 147-8, Harris 12.1*
Thursday, April 22 (**Chloride Lab due** 8:15) **Acid** *Lab pages 19-22, 53, 43-44*	Friday, April 23 (**Problems 5 due** 8:15) Ionic Strength, *Rain App 3 and Harris 12.2* Soil, *Rain 4A*

Week 4	Monday, April 26 (**Problems 6 due** 8:15) Buffers, *Rain 4C and Harris 9.1-5* Titrations, *Rain 4 and Harris 10.1-6, 9.6*
Tuesday, April 27 {**Acid Lab due** 8:15) **Soil** *Lab Rain 5C and Harris 20.1, Box 13-2*	Wednesday, April 28 K_d, Extractions Chromatography, Chemical Spills, *Harris 21.1*
Thursday, April 29 **Soil** *Lab page 42 and Rain 5C, 5D*	Friday, April 30 **Test 2 due** 9:45 D_o and α, *Rain 4E and Harris 11.1, 11.3, 12.5*

Week 5	Monday, May 3 (**Problems 8 due** 8:15) CEC, *Rain 5A* Aluminum, *Rain 5B*
Tuesday, May 4 (**Soil Lab due** 8:15) **Blue** *Lab pages 23-25 and Harris 18.2*	Wednesday, May 5 ~~(**Your draft due** 8:15)~~ K_f, F_o and δ, *Rain page 124 and Harris 13.1-2* [L], *Rain pages 124-129*
Thursday, May 6 (Symposium Day)	Friday, May 7 ~~(**Group Paper due** 8:15)~~ EDTA, *Rain 5E and Harris 13.5-6* Spectroscopy, *Harris 19.1, 19.3*

Week 6	Monday, May 10 (**Problems 12 due** 8:15) Electrochemistry, *Harris 14.2* Coulometry, Nernst, *Harris 14.3-4, 14.6, 17.1*
Tuesday, May 11 **Blue** *Lab pages 26-27 and Harris 19.2*	Wednesday, May 12 (Spring Day)
Thursday, May 13 (**Blue Lab due** 8:15) **Bleach** *Lab pages 28-29*	Friday, May 14 **Test 3 due** 9:45 Measure activity, *Harris 15*

Week 7	Monday, May 17 Cyclic, Nernst & *K*, *Harris 14.5, Rain pages 155-9* Redox, *Harris 16 and Rain Appendix 4*
Tuesday, May 18 (**Bleach Lab due** 8:15) **Electrode** *Lab pages 34-36*	Wednesday, May 19 (**Problems 13 due** 8:15) *S*, H^+ and K_f Precipitates, *Harris 7.1-2*
Thursday, May 20 (**Electrode Lab due** 8:15) *pH* in biology Solid State	Friday, May 21 CO_2, *Harris Box 11-1*

	Monday, May 24 **Test 4 due** 10:15